# Hazardous Material Investigation Martin Luther King Expressway Extension
# Downtown Tunnel / Midtown Tunnel / MLK Expressway Extension Project (D0403030120)

**Submitted To:**

**SKW Constructors**
**1500 Seaboard Avenue**
**Portsmouth, VA. 23707**

**October 12, 2012**

**Prepared By:**

**EEE Consulting, Inc.**
**8525 Bell Creek Road**
**Mechanicsville, VA 23116**

## Table of Contents

**1. EXECUTIVE SUMMARY ..... 7**
**2. INTRODUCTION ..... 9**
2.1. Technical Requirements ..... 11
2.2. MLK Hazardous Material Investigation Report Purpose ..... 11
2.3. General Scope-of-Services ..... 12
2.4. Significant Assumptions ..... 12
2.5. Limitations and Exceptions ..... 12
2.6. User Reliance ..... 12
**3. WORK PLAN AND METHODS OF INVESTIGATION ..... 13**
3.1. Introduction ..... 13
3.2. Work Activities and Sequence ..... 14
3.2.1. Boring Stakeout and Utility Clearance ..... 14
3.2.2. Soil Boring and Sampling Operations ..... 14
3.2.3. Groundwater Sampling Operations and Temporary Monitoring Well Construction ..... 15
3.2.4. Sample Management and Laboratory Analyses ..... 16
3.2.5. Quality Assurance and Controls ..... 18
3.2.6. Equipment Decontamination ..... 18
3.2.7. Investigation Derived Waste ..... 19
3.2.8. Safety ..... 19
**4. BACKGROUND INFORMATION ..... 19**
4.1. Physical Setting ..... 19
4.2. Current Land Use ..... 20
4.3. Description of Project Improvements ..... 20
**5. FINDINGS ..... 20**
5.1. Applicable Regulatory Standards And Criteria, and Natural Concentrations ..... 21
5.2. SWM Pond 8 ..... 22
5.3. I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road ..... 23
5.4. Portsmouth Redevelopment and Housing Authority and SWM Pond 14 ..... 24
5.5. Ramp SW and MLK Mainline ..... 25
5.6. Ramp WM and SWM Ponds 19 and 20 ..... 26
5.6.1. SWM Pond 19 ..... 26
5.6.2. SWM Pond 20 ..... 27
5.6.3. MLK Mainline ..... 27
5.7. CSX and Vulcan Properties ..... 27
5.8. Old Dominion Demolition and SWM Pond 24 ..... 29
5.9. South Harbor Drive and SWM Pond 25 ..... 30
5.10. North Harbor Drive and SWM Pond 30 ..... 31
5.11. Data Assessment ..... 32
5.11.1. Sampling Assessment ..... 32
5.11.2. Analytical Assessment ..... 34
**6. SUMMARY AND CONCLUSIONS ..... 35**
6.1. SWM Pond 8 ..... 35
6.2. I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road ..... 36
6.3. Portsmouth Redevelopment and Housing Authority and SWM Pond 14 ..... 36
6.4. Ramp SW and MLK Mainline ..... 37
6.5. Ramp WM and SWM Ponds 19 and 20 ..... 37
6.6. CSX and Vulcan Properties ..... 37
6.7. Old Dominion Demolition and SWM Pond 24 ..... 37

6.8. South Harbor Drive and SWM Pond 25 ..... 38
6.9. North Harbor Drive and SWM Pond 30 ..... 38
**7. REFERENCES ..... 39**

**TABLES**

Table 1 Properties within MLK Corridor ROW
Table 2 Environmental Records Findings - MLK Corridor ROW Properties
Table 3 Soil Management Matrix
Table 4 Natural Metal Concentrations in Natural Soils and Groundwater
Table 5 VPDES General Permit VAG 083 Effluent Limits
Table 6 SWM Pond 8 Soil Detections
Table 7 SWM Pond 8 Groundwater Detections
Table 8 I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road Soil Detections
Table 9 I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road Groundwater Detections
Table 10 Portsmouth Redevelopment and Housing Authority and SWM Pond 14 Soil Detections
Table 11 Portsmouth Redevelopment and Housing Authority and SWM Pond 14 Groundwater Detections
Table 12 Ramp SW and MLK Mainline Soil Detections
Table 13 Ramp SW and MLK Mainline Groundwater Detections
Table 14 Ramp WM and SWM Ponds 19 and 20 Soil Detections
Table 15 Ramp WM and SWM Ponds 19 and 20 Groundwater Detections
Table 16 CSX and Vulcan Properties Soil Detections
Table 17 CSX and Vulcan Properties Groundwater Detections
Table 18 Old Dominion Demolition and SWM Pond 24 Soil Detections
Table 19 Old Dominion Demolition and SWM Pond 24 Groundwater Detections
Table 20 South Harbor Drive and SWM Pond 25 Soil Detections
Table 21 SWM Pond South Harbor Drive and SWM Pond 25 Groundwater Detections
Table 22 North Harbor Drive and SWM Pond 30 Soil Detections
Table 23 North Harbor Drive and SWM Pond 30 Groundwater Detections
Table 24 Relative Percent Difference of Field Duplicate Soil Samples
Table 25 Relative Percent Difference of Field Duplicate Groundwater Samples

**FIGURES**

Figure 1 Project Location
Figure 2 Project Corridor and Topography
Figure 3 Aerial Photograph of Project Corridor and Surrounding Area
Figure 4 MLK Corridor Overview
Figure 5 MLK Corridor – Index 1
Figure 6 MLK Corridor – Index 2
Figure 7 Conceptual Groundwater Flow Map
Figure 8 Borehole and Groundwater Sample Locations – SWM Pond 8
Figure 9 Borehole and Groundwater Sample Locations - I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road
Figure 10 Borehole and Groundwater Sample Locations - Portsmouth Redevelopment and Housing Authority and SWM Pond 14
Figure 11 Borehole and Groundwater Sample Locations - Portsmouth Redevelopment and Housing Authority and SWM Pond 14

Figure 12 Borehole and Groundwater Sample Locations - Portsmouth Redevelopment and Housing Authority and SWM Pond 14
Figure 13 Borehole and Groundwater Sample Locations - Ramp SW and MLK Mainline
Figure 14 Borehole and Groundwater Sample Locations - Ramp WM and SWM Ponds 19 and 20
Figure 15 Borehole and Groundwater Sample Locations - Ramp WM and SWM Ponds 19 and 20
Figure 16 Borehole and Groundwater Sample Locations - Ramp WM and SWM Ponds 19 and 20
Figure 17 Borehole and Groundwater Sample Locations - CSX and Vulcan Properties
Figure 18 Borehole and Groundwater Sample Locations - CSX and Vulcan Properties and Old Dominion Demolition and SWM Pond 24
Figure 19 Borehole and Groundwater Sample Locations - Old Dominion Demolition and SWM Pond 24 and South Harbor Drive and SWM Pond 25
Figure 20 SWM Pond 24 Soil Analyses
Figure 21 SWM Pond 24 Groundwater Analyses
Figure 22 Cross Section A-A' – SWM Pond 24
Figure 23 Cross Section B-B' – SWM Pond 24
Figure 24 SWM Pond 25 Soil Analyses
Figure 25 SWM Pond 25 Groundwater Analyses
Figure 26 Cross Section A-A' – SWM Pond 25
Figure 27 Cross Section B-B' – SWM Pond 25
Figure 28 Borehole and Groundwater Sample Locations - North Harbor Drive and SWM Pond 30
Figure 29 Borehole and Groundwater Sample Locations - North Harbor Drive and SWM Pond 30

**ATTACHMENTS**

Attachment A Boring Logs
Attachment B Laboratory Data Tables and Reports

## List of Acronyms

| | |
|---|---|
| AAI | All Appropriate Inquiry |
| ACM | Asbestos-containing materials |
| AST | Aboveground storage tank |
| BDL | Below Detection Limit |
| BTEX | Benzene, toluene, ethyl benzene, and xylenes |
| bgs | below ground surface |
| CY | cubic yards |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CERCLIS | Comprehensive Environmental Response, Compensation, and Liability Information System |
| CL | Construction Limits |
| COC | Chain of Custody |
| COPC | Contaminants of Potential Concern |
| CWA | Clean Water Act |
| VDEQ | Virginia Department of Environmental Quality |
| DOLI | Virginia Department of Labor and Industry |
| DPOR | Virginia Department of Professional and Occupational Regulation |
| DRO | Diesel Range Organics |
| EA | Environmental Assessment |
| EIS | Environmental Impact Statement |
| ELLAP | Environmental Lead Laboratory Accreditation Program |
| EPA | U.S. Environmental Protection Agency |
| ERC | Elizabeth River Crossings, Ltd |
| ERTD | Elizabeth River Tunnel District |
| ESA | Environmental Site Assessment |
| GPR | Ground Penetrating Radar |
| GRO | Gasoline Range Organics |
| HASP | Health and Safety Plan |
| HEPA | High Efficiency Particle Air |
| HMAP | Hazardous Materials Action Plan |
| HMMP | Hazardous Materials Management Plan |
| LUST | Leaking Underground Storage Tank |
| mg/kg | milligram per kilogram |
| mg/L | milligrams per liter |
| msl | mean sea level |
| MTT | Midtown Tunnel |
| MLK | Martin Luther King |
| NESHAP | National Emission Standard for Hazardous Air Pollutants |
| NRCS | National Resource Conservation Service |
| OSHA | Occupation Safety and Health Administration |
| PAH | Polycyclic aromatic hydrocarbons |
| PCB | Polychlorinated biphenyl |

| | |
|---|---|
| PC | Pollution Complaint |
| PEL | permissible exposure limit |
| PID | Photoionization Detector |
| PMT | Portsmouth Marine Terminal |
| PPE | Personal Protection Equipment |
| ppm | parts per million |
| PREP | Pollution Response Emergency Program |
| PRHA | Portsmouth Redevelopment Housing Authority |
| REC | Recognized Environmental Condition |
| RBC | Risk Based Concentration |
| RCRA | Resource Conservation and Recovery Act |
| RCRIS | Resource Conservation and Recovery Act Information System |
| ROW | Right-of-Way |
| SOE | Support of Excavation |
| SKW | SKW Constructors |
| SSL | Soil Screening Levels |
| SVOC | Semi-volatile organic compounds |
| TCLP | Toxicity Characteristic Leaching Procedure |
| TOX | Total Organic Halogens |
| TSCA | Toxic Substance Control Act |
| TPH | Total Petroleum Hydrocarbons |
| TPH-DRO | Total Petroleum Hydrocarbons-Diesel Range Organics |
| TPH-GRO | Total Petroleum Hydrocarbons-Gasoline Range Organics |
| µg/m3 | micrograms per cubic meter |
| USACE | United States Army Corps of Engineers |
| USDA | United States Department of Agriculture |
| USGS | United States Geologic Survey |
| UST | Underground Storage Tank |
| VDOT | Virginia Department of Transportation |
| VHWMR | Virginia Hazardous Waste Management Regulations |
| VOC | Volatile organic compounds |
| VOSH | Virginia Occupational Safety and Health |
| VPDES | Virginia Pollutant Discharge Elimination System |
| VRP | Voluntary Remediation Program |
| VSMP | Virginia Stormwater Management Permit |
| VSWMR | Virginia Solid Waste Management Regulations |

# 1. EXECUTIVE SUMMARY

This hazardous material investigation report (HMIR) for the Martin Luther King (MLK) Expressway Extension provides the results of subsurface investigations of potential hazardous and/or regulated materials within the MLK Extension Project Corridor. The MLK Extension is part of the Downtown Tunnel/Midtown Tunnel/Martin Luther King Extension Project. Under Virginia's Public Private Transportation Act, the Virginia Department of Transportation (VDOT) has entered into an agreement with Elizabeth River Crossings, LLC (ERC) for completion of the Downtown Tunnel/Midtown Tunnel/Martin Luther King Freeway (DTT/MTT/MLK) Extension Project in the cities of Norfolk and Portsmouth, Virginia. ERC is the project developer for the DTT/MTT/MLK Project. Elizabeth River Crossing OpCo LLC (Concessionaire) is the overall manager and operator for the Project. The Design/Build team for the Project consists of SKW Constructors (SKW), a joint venture between Skanska USA Civil Southeast, Inc., Kiewit Construction Company, and Weeks Marine, Inc., and Parsons Brinckerhoff, Inc. (PB), the lead project design engineer. This report was prepared by EEE Consulting, Inc. (EEE), a subcontractor to PB, tasked with addressing hazardous material issues that may be encountered during construction.

The MLK Corridor includes approximately 86 properties located from London Blvd to Interstate 264 (I-264) and along I-264 from Neville Street to Lansing Avenue. For this report, the term MLK Corridor refers to all the project elements within the project Right of Way (ROW) and Construction Limits (CL). The Project will involve simple fee acquisition of multiple parcels, aerial easements, utility easements, and temporary construction easements. The design plan elements shown on the figures within this document were derived from working design plans posted to ProjectWise as of August 17, 2012.

Previous investigations by Marshall Miller & Associates (MM&A, 1997, 1998a, 1998b, 2009, and 2010), EEE (2011a), ERM (2011), and others have determined there are multiple properties and facilities within and immediately adjacent to the MLK Corridor where hazardous and regulated materials are currently or have historically been stored and managed, and have recognized environmental conditions. The previous investigations by MM&A and others also documented impacts to soil and groundwater at many of the properties within and adjacent to the MLK ROW.

This HMIR presents the results of a pre-construction investigation and waste characterization of potential soil and groundwater contamination within the MLK Corridor. The pre-construction investigation and waste characterization were designed to provide sufficient information to determine the occurrence, approximate quantities, and regulatory classification of impacted soil and groundwater likely to be encountered during construction of the Project. The results of these investigations will be used in the Construction Hazardous Material Management Plan (HMMP) for the MLK Corridor to identify on-site and off-site management options for soil and groundwater generated during construction, the application of construction resources, construction worker health and safety issues, and compliance with applicable laws and regulations.

A total of 63 boreholes were completed on approximately 19 properties and along existing VDOT and City of Portsmouth ROW within the MLK Corridor. Nine boreholes were completed within the CSX and

Vulcan properties, and a single borehole was advanced within the NPBL right of way. Select soil samples from 56 boreholes were submitted for laboratory analysis for contaminants of potential concern. Groundwater samples were collected for laboratory analysis from 41 boreholes. The soil and groundwater samples were analyzed for a variable suite of COPC based on previous investigations. Selected soil samples were also analyzed for waste characteristics to confirm the regulatory classification of the soil materials.

The analytical results are evaluated with respect to the recognized environmental conditions and site features presented in the Corridor Level Environmental Records Report (EEE, 2012a). The soil and groundwater analytical results are also compared to various regulatory standards and criteria in order to determine the regulatory status of the soil and groundwater, and identify options for management during construction.

The results of the investigation indicate localized impacts to soil and groundwater within the MLK Corridor. Almost all of the impacts are related to historical releases of petroleum products from diesel and gasoline underground storage tanks that have either been closed in place or have been removed from the ground. Residual petroleum contamination of soils and groundwater were found at the following locations:

- Along Columbus Avenue in front of the Portsmouth Redevelopment and Housing Authority (PRHA) property where proposed Ramps SE and EN will be constructed (Parcels 009 and 010).
- MLK Mainline pier locations through the CSX property and Vulcan Materials lease area (Parcel 12).
- Within and nearby proposed stormwater management (SWM) Pond 24 (Parcels 24-29)
- Within and nearby proposed SWM Pond 25 (Parcels 31-34)

All of these areas had petroleum impacted soil with petroleum constituent concentrations above the Virginia Department of Environmental Quality criteria for clean fill (9VAC 20-81-660). The extent of petroleum contamination in these areas cannot be fully defined as petroleum constituents may have migrated along subsurface utility trenches or other preferential migration pathways. Petroleum contaminated soil may be encountered during bridge pier construction, SWM Pond construction, installation of any subsurface conveyance structures to or from the SWM Ponds, utility relocations, and any other ground disturbance in this area. Excess petroleum impacted soils that cannot be placed back into the excavation from which they were derived or on soils with similar concentrations, must be disposed of at a landfill or treatment facility permitted to accept soils with the TPH concentrations found.

Polycyclic aromatic hydrocarbons (PAH), a group of organic compounds that form from the incomplete combustion of hydrocarbons, such as coal, wood, diesel, and gasoline, were found at several locations within the CSX Rail Yard. PAHs are an environmental concern due to their toxicity to aquatic life and because several are suspected human carcinogens. Although the PAH concentrations in the samples from the CSX property are relatively low, several of the PAHs exceeded Risk Based Concentrations (RBC) for industrial use. The laboratory data indicate the level of TPH and PAH impacts within the CSX property are highly variable, and appropriate environmental monitoring and worker protection should be employed for all construction activities on CSX property.

Low concentrations of PCBs and pesticides/herbicides were also detected in the soil samples collected along Columbus Avenue in front of the PRHA property where proposed Ramps SE and EN will be constructed. The source of the PCBs and pesticides/herbicides found is probably from stormwater runoff from exterior areas on the PRHA facility where PCB containing transformers and pesticide/herbicides containers were historically stored. The source of the PCBs found at 3E-008-6W is not known. The full extent of PCB and pesticide/herbicide contaminated soil is not known. Additional PCB analyses of the other soil samples collected in this area are currently being performed and will be incorporated into the final report.

Low concentrations of petroleum constituents were detected in the groundwater samples collected in all of the areas listed above. The groundwater impacts are related to historical releases of petroleum products from diesel and gasoline underground storage tanks that have either been closed in place or have been removed from the ground. The concentrations of petroleum constituents were all well below the effluents limits for the Virginia Pollutant Discharge Elimination System Permit VAG 083 - Petroleum Contaminated Sites and Hydrostatic Tests (9VAC 25-120). Groundwater management during construction will be address in the Construction HMMP for the MLK Corridor.

## 2. INTRODUCTION

This hazardous material investigation report (HMIR) for the Martin Luther King (MLK) Expressway Extension provides the results of subsurface investigations of potential hazardous and/or regulated materials within the MLK Extension Project Corridor (MLK Corridor). The MLK Extension is part of the Downtown Tunnel/Midtown Tunnel/Martin Luther King Extension Project. Under Virginia's Public Private Transportation Act (PPTA), the Virginia Department of Transportation (VDOT) has entered into an agreement with Elizabeth River Crossings, LLC (ERC) for completion of the Downtown Tunnel/Midtown Tunnel/Martin Luther King Freeway (DTT/MTT/MLK) Extension Project in the cities of Norfolk and Portsmouth, Virginia. ERC is the project developer for the DTT/MTT/MLK Project. Elizabeth River Crossing OpCo LLC (Concessionaire) is the overall manager and operator for the Project. The Design/Build team for the Project consists of SKW Constructors (SKW), a joint venture between Skanska USA Civil Southeast, Inc., Kiewit Construction Company, and Weeks Marine, Inc., and Parsons Brinckerhoff, Inc. (PB), the lead project design engineer. This report was prepared by EEE Consulting, Inc. (EEE), a subcontractor to PB, tasked with addressing hazardous material issues that may be encountered during construction.

The MTT/DTT/MLK Project is located in the cities of Norfolk and Portsmouth, Virginia. Figure 1 shows the general location of the Project. Figures 2 and 3 show the locations of the MTT, DTT, and MLK project areas on a U.S. Geological Survey topographic map and an aerial photograph, respectively. Collectively, these project areas constitute the Project Corridor.

The MTT/DTT part of the Project consists of refurbishment of the existing Midtown and Downtown tunnels and construction of a new parallel tunnel under the Elizabeth River, expanding the capacity of the Midtown Tunnel to four lanes, two in each direction. Improvements will also be made to the interchange on the north side of the MTT tunnel at Brambleton Avenue. The MLK Freeway Extension

consists of extending the existing freeway south from London Blvd to Interstate 264 (I-264) in the City of Portsmouth, with new interchanges at High Street and I-264. The completed four-lane, limited access freeway will provide a direct connection from I-264 to the MTT and a direct connection between the Western Freeway and DTT.

The MLK Corridor includes approximately 86 properties located from London Blvd to I-264 and along I-264 from Neville Street to Lansing Avenue. For this report, the term MLK Corridor refers to all the project elements within the project Right of Way (ROW) and Construction Limits (CL). The Project will involve simple fee acquisition of multiple parcels, aerial easements, utility easements, and temporary construction easements. Figure 4 shows the major design elements of the MLK Extension and parcels within and adjacent to the MLK Corridor. Figures 5 and 6 provide index maps showing the areal coverage of other report figures. The design plan elements shown on the figures within this document were derived from working design plans posted to ProjectWise as of August 17, 2012. Table 1 lists the proposed ROW parcels located in the MLK Corridor.

Previous investigations by Marshall Miller & Associates (MM&A, 1997, 1998a, 1998b, 2009, and 2010), EEE (2011), ERM (2011), and others have determined there are multiple properties and facilities within and immediately adjacent to the MLK Corridor where hazardous and regulated materials are currently or have historically been stored and managed, and have recognized environmental conditions. Many of these properties and facilities had leaking underground storage tanks (USTs), and/or documented releases of petroleum products. Table 2 presents a summary of the environmental records documentation for the MLK Corridor ROW properties.

The previous investigations by MM&A and others also documented impacts to soil and groundwater at many of the properties within and adjacent to the MLK ROW. The results of these investigations are summarized in EEE (2010, 2011a), ERM (2011), and Exhibit Q to the CA. The results of these investigations and recent inspections of the properties with the MLK Corridor were presented in the Corridor Level Environmental Records Report recently completed by EEE (2012) for the MTT/DTT/MLK Project.

This HMIR presents the results of a pre-construction investigation and waste characterization of potential soil and groundwater contamination within the MLK Corridor. The pre-construction investigation and waste characterization were designed to provide sufficient information to determine the occurrence, approximate quantities, and regulatory classification of impacted soil and groundwater likely to be encountered during construction of the Project. The results of these investigations will be used in the Construction Hazardous Material Management Plan (HMMP) for the MLK Corridor to identify on-site and off-site management options for soil and groundwater generated during construction, the application of construction resources, construction worker health and safety issues, and compliance with applicable laws and regulations.

To facilitate presentation in the report, the MLK Corridor is divided into the following nine geographic areas:

- **SWM Pond 8** - includes the VDOT ROW north of Frederick Boulevard and East of I-264, where proposed stormwater management (SWM) Pond 8 is planned.
- **I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road** - includes a portion of the Norfolk & Portsmouth Belt Line (NPBL; Parcel 006) and the City of Portsmouth Vehicle Maintenance Facility (Parcel 005).
- **Portsmouth Redevelopment and Housing Authority and SWM Pond 14** - includes Parcels 007, 008, 009, and 010 as well as the adjacent VDOT and City of Portsmouth ROWs.
- **Ramp SW and MLK Mainline** - includes the CSX Vacant Lot (portion of Parcel 12 between the HERC/BCSC (Parcel 13) and Murro Chemical properties), and the adjacent VDOT ROW along Columbus Avenue.
- **Ramp WM and SWM Ponds 19 and 20** - includes the portion of CSX Rail Yard (Parcel 12) and the northeast portion of the HERC/BCSC property (Parcel 13) along proposed Ramp WM, Parcels 015, 082, 017, and the adjacent VDOT ROW along Columbus Avenue.
- **CSX and Vulcan Properties** - includes the CSX Rail Yard (Parcel 12) and the Vulcan lease area in the northern part of Parcel 012.
- **Old Dominion Demolition and SWM Pond 24** - includes the Old Dominion Demolition property (Parcels 024 and 026) and the proposed location of SWM Pond 24 (Parcels 025, 027, 028, and 029).
- **South Harbor Drive and SWM Pond 25** - includes all ROW parcels located along Harbor Drive south of County Street to Turnpike Road, the parcels within the proposed SWM Pond 25, and the VDOT and City of Portsmouth ROW along adjacent roadways.
- **North Harbor Drive and SWM Pond 30**- includes all parcels located along Harbor Drive north of County Street to London Boulevard as well as the VDOT ROW at the proposed SWM Pond 30.

Figures 5 and 6 provide index maps showing the areal coverage of other report figures. The design plan elements shown on the figures within this document were derived from working design plans posted to ProjectWise as of August 17, 2012.

## 2.1. Technical Requirements

The Technical Requirements (TR) to the Comprehensive Agreement (CA) does not specifically require a hazardous material investigation of the MLK Extension. The TRs state that ERC “shall cause further studies and evaluations to be performed and submit a summary of findings to VDOT.”

## 2.2. MLK Hazardous Material Investigation Report Purpose

The principal objectives of the MLK hazardous material investigation are to document the pre-construction investigations and waste characterization of potential soil, surface water, and groundwater contamination within the MLK Corridor; to provide sufficient information regarding the occurrence, approximate quantities, and regulatory classification of contaminated soil, surface water, and groundwater likely to be encountered within the MLK Corridor; and to provide management and disposal options for impacted soils and groundwater in compliance with applicable laws and regulations. This report will be used by ERC OpCo, SKW, PB, and their subcontractors to prepare

plans and specifications for the Project construction, and will be incorporated into the Construction Hazardous Materials Management Plan for the MLK Corridor.

## 2.3. General Scope-of-Services

The following general work tasks were performed to meet the objectives of MLK hazardous material investigation:

1. Completion of 63 boreholes on approximately 19 properties, and along existing VDOT and City of Portsmouth ROW within the MLK Corridor.
2. Collection of 56 soil samples and 41 groundwater samples from the boreholes for laboratory analysis.
3. The soil and groundwater samples were analyzed for a variable suite of contaminants of potential concern (COPC) based on previous investigations.
4. Analysis of selected soil samples for waste characterization profiling.

Section 3 presents a detailed discussion of the investigation methods, protocols, and procedures.

## 2.4. Significant Assumptions

It is assumed the information provided to EEE by PB, SKW, property owners, the VDEQ, and other governmental agencies is accurate and up to date.

## 2.5. Limitations and Exceptions

The standard of care for all professional engineering, environmental, and related services performed by EEE for this investigation are care and skill ordinarily used by members of these professions practicing under similar conditions at the same time and in the same locality. Interpretations and conclusions presented are based on the available information referenced in this report, the results of our field studies, and/or our professional judgment. To the best of our knowledge, information provided by others is true and accurate. Interpretations and conclusions presented by EEE may not reflect variations in subsurface soil and groundwater conditions that might exist between or beyond our sampling points or at times either before or after the dates the samples were collected.

## 2.6. User Reliance

This report was completed by EEE for the sole use by PB, SKW, ERC OpCo, and VDOT, and their designated representatives. Use of this report by another party is not authorized and will be at such party's own risk. EEE disclaims liability for use or reliance on this report by other parties.

# 3. WORK PLAN AND METHODS OF INVESTIGATION

## 3.1. Introduction

This section presents the work plan and methods used to complete a subsurface investigation of the MLK Corridor to determine the occurrence, nature, and approximate extent of soil and groundwater contamination that may be encountered during construction of the MLK Expressway Extension. Potentially impacted areas within the MLK Corridor and constituents of potential concern (COPC) were identified based on previous investigations completed by Marshall Miller and Associates (MMA, 1997, 1998b, 2009, and 2010) and EEE (2011a). The results of these previous investigations are summarized in Exhibit Q to the CA and the recently completed Corridor Level Environmental Records (CLER) Report (EEE, 2012a). The subsurface investigation included the collection and analysis of soils and groundwater samples for COPC in known and potentially impacted areas within the MLK Corridor.

EEE and PB developed a detailed work plan for the investigation of the MLK Corridor in accordance with SKW templates. The work plan included a scope and schedule of work, hazard analysis, borehole location map, sampling and analysis plan (chemical testing schedule), traffic management requirements, procedures for the management of investigation derived waste, and quality assurance and control (QA/QC) procedures and protocols. The draft work plan was reviewed and discussed during a pre-construction meeting with SKW and PB personnel on July 26, 2012. The work plan was edited to address various issues identified during the meeting, finalized, and submitted to PB and SKW. The final work plan was reviewed during a preparatory meeting with SKW and PB personnel on August 6, 2012. Immediately following the preparatory meeting, SKW and PB personnel met EEE and Fishburne Drilling, Inc. (FDI) personnel on-site for a field work kick-off meeting to review potential hazards and safety considerations and initiate field work.

The field work was initiated on August 6, 2012 and completed on September 13, 2012. A total of 63 boreholes were completed on approximately 19 properties and along existing VDOT and City of Portsmouth ROW within the MLK Corridor. Nine boreholes were completed within the CSX property and Vulcan lease area, and a single borehole was advanced within the NPBL property.

Soil samples from each borehole were collected at one-foot intervals for field description and headspace VOCs screening. Select soil samples from 56 boreholes were submitted for laboratory analysis for COPC. Groundwater samples were collected for laboratory analysis from 41 boreholes using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump. Temporary PVC monitoring wells were installed in two boreholes due to access issues, and polyethylene bailers were used to collect groundwater samples from these wells for laboratory analysis.

EEE environmental scientists provided oversight and coordination of the field work, logged each of the boreholes, and collected all environmental samples. The Geoprobe™ and hollow-stem auger (HSA) soil borings were advanced by FDI. The hand auger and shovel soil borings were advanced by EEE personnel. All laboratory analyses were completed by TestAmerica as directed by EEE. All field work was completed in accordance with EEE's Project Standard Operating Procedures (SOPs) and EEE's

Project QA/QC Plan, FDI's Project SOPs, applicable ASTM standards 1999b, 1999c, 5434, and 6282, and other applicable regulatory guidance documents.

Figure 4 presents an overview of the MLK Corridor and outlines the extent of the two Index Maps. The Index Maps, included as Figures 5 and 6, outline the extent of each of the 14 borehole location maps. The borehole location maps show the location of the boreholes and the groundwater sampling points for the investigation, and the site features and RECs identified in the CLER report (EEE, 2012a).

EEE personnel coordinated daily with SKW and PB personnel during the field activities and implemented safety and reporting measures in accordance with the project work plan and SKW project guidance. SKW safety training was completed by all EEE and FDI field personnel prior to initiation of the field work. Additionally, all field personnel completed an 8-hour CSX safety training course on August 21, 2012. A brief Vulcan Materials site safety training was also completed by all field personnel on August 22, 2012 prior to gaining access to the site.

Four borings required traffic control operations due to the proximity to an existing secondary roadway. EEE contracted with Spivey Rentals, Inc. to complete certified flagging operations and shoulder closures as required by SKW. Borings 3E-VDOT-14W and 3E-VDOT-25W installed along Columbus Avenue required flagging operations. Borings 3E-032-48W and 3E-032-51W installed along Harbor Drive near the Turnpike Road intersection required a shoulder closure. Spivey established a work zone in these areas by setting up Traffic Control to the Manual on Uniform Traffic Control Devices (MUTCD) Standards following VDOT guidelines detailed in the attached document, "Work Zone Safety: Guidelines for Temporary Traffic Control" dated January 2012.

## 3.2. Work Activities and Sequence

### 3.2.1. Boring Stakeout and Utility Clearance

During the site reconnaissance for the CLER report (EEE, 2012a), EEE personnel staked or marked each accessible boring location using standard pacing and taping techniques and GPS technology. Borehole locations were adjusted or offset from the originally proposed boring locations based on updated design plans, site observations, access considerations, and results of the CLER report. Wooden stakes were driven into the ground at the identified boring locations and flagged with pink fluorescent flagging tape. In paved areas, the boring locations were marked with pink high visibility marking paint.

FDI contacted Miss Utility of Virginia to mark all public utilities in the vicinity of the proposed borings prior to the advancement of the borings. The public utilities were cleared by representatives of the utilities present in the vicinity of the proposed work. Once the proposed borings locations were staked in the field, all private utilities in the vicinity of the proposed borings were marked by Clarion.

### 3.2.2. Soil Boring and Sampling Operations

FDI provided two Geoprobe™ rigs (truck mounted and track mounted) to complete 58 boreholes and a HSA drill rig to complete the two boreholes. EEE personnel manually completed two boreholes, 3E-082-82 and 3E-082-83, using a 3 1/4 inch inside diameter (I.D.) hand auger, due to steep slopes and

trees. EEE personnel also collected a surface soil sample using a shovel at boring 3E-015-80. All boreholes were completed and sampled in general accordance with ASTM standards 1999b, 1999c, and 6282.

The Geoprobe™ borings were initiated on August 6, 2012 and were planned for completion on August 17, 2012. However, access to the CSX, Vulcan, and NPBL properties was delayed until August 22, 2012, following CSX and Vulcan training. Once site access was granted, EEE and FDI mobilized a second time to the site and advanced eight additional boreholes on August 22 and 23, 2012. Two borings on the Vulcan property, 3E-012-32 and 3E-012-35W, could not be completed with the Geoprobe™ rig due to probe refusal on compacted gravel fill within two feet of the ground surface. Three attempts were made at offset locations to advance the borings without success. These borings were completed on September 13, 2012 using the HSA drill rig, which was able to penetrate the compacted fill.

The depth of each soil boring was based on the anticipated depth of disturbance during construction activities. Fifty eight boreholes were completed to depths of approximately 10 or 11 feet below ground surface (bgs). Two boreholes, 3E-034-49W and 3E-034-50W, were advanced to depths of 15 and 16 feet bgs, respectively, to define the extent of observed residual-phase petroleum contamination in the boreholes. The hand auger boreholes were completed to a depth of approximately six feet bgs to determine the contents and assess the potential for petroleum contamination in the spoil piles on Parcel 082. Boring 3E-015-80 was advanced to approximately one-half foot bgs using a shovel to determine the extent of a surface petroleum stain.

The Geoprobe™ boreholes were continuously sampled using 1-1/2 inch I.D. steel sampling tubes (MacroCore™ sampler) with interior disposable acetate liners. The HSA boreholes were continuously sampled using a two-foot split spoon sampler from the ground surface to the total depth of the borings. The split spoon sampler was pushed into the ground using the weight of the rig to the predetermined sampling depths.

Soils were field classified according to the Unified Soil Classification System and in general accordance with ASTM 5434. Detailed logs for each borehole are presented in Attachment A. Soil samples were collected from each boring at one foot intervals and placed into sealable plastic bags. The concentrations of volatile organic compounds (VOC) in the headspace of the sample bags were measured using a Photoionization Detector (PID). Soil samples were selected for laboratory analysis based on field observations of contamination such as high PID readings, stained soils, or petroleum odors. In the absence of either PID or field observations of contamination, samples were collected from the zone of water table fluctuation.

### 3.2.3. Groundwater Sampling Operations and Temporary Monitoring Well Construction

All groundwater samples except two were collected using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump. Following advancement of each boring designated for groundwater sample collection, FDI personnel set the Screen Point Groundwater Sampler in the borehole and inserted a dedicated section of polyethylene tubing in the sampler to a depth of approximately one to two feet above the borehole terminus. The polyethylene tubing was then

connected to a section of dedicated silicone tubing and a peristaltic pump was used to remove groundwater for sampling. A small volume of groundwater was purged from the borings prior to collecting a sample to reduce the sediment in the samples.

A peristaltic pump was not available during the sampling of borings 3E-008-04W and 3E-012-35W; therefore, FDI personnel completed the borings as temporary 1.25-inch diameter PVC groundwater monitoring wells. A ten foot section of PVC well screen was inserted into the borings and groundwater samples were collected using a one-inch outside diameter (O.D.) dedicated polyethylene bailer. As previously noted, a small volume of groundwater was purged from each well prior to collecting a sample to reduce the sediment in the samples.

Following completion of the specified sampling schedule at each borehole, the Screen Point Groundwater Sampler or PVC well screen (if used) were removed and the boreholes were properly abandoned by backfilling with soils removed from the boring and 1/4 inch bentonite pellets to the ground surface. If the boring was completed through asphalt, the boring was patched using cold-mix asphalt at the ground surface.

### 3.2.4. Sample Management and Laboratory Analyses

Soil and groundwater samples selected for laboratory analysis were transferred to appropriate laboratory-supplied sample containers and placed on ice in an insulated cooler. A laboratory courier transported the coolers to the analytical laboratory on a daily basis as needed. Chain-of-custody (COC) forms were completed in the field and submitted with the samples. All samples and associated quality control samples were submitted to TestAmerica Laboratories for analysis using U.S. EPA SW-846 test methods.

The soil and groundwater samples were analyzed for a variable suite of COPC based on previous investigations. Selected soil samples were also analyzed for waste characteristics to confirm the regulatory classification of the soil materials. The sampling and analysis plan included in the investigation work plan was developed based on the recently completed CLER Report (EEE, 2012a), previous investigations completed by Marshall Miller & Associates (MMA, 1997, 1998b, 2009, and 2010) and EEE (2011a), the Virginia Solid Waste Management Regulations (VSWMR), the Virginia Hazardous Waste Management Regulations (VHWMR), and the Waste Characterization Plan developed by Conley Environmental Corporation (CEC, 2012) for the MTT Approach Areas. The results of the previous investigations are summarized in EEE (2010, 2011b, 2012a), ERM (2011), and Exhibit Q to the CA.

The main purpose for selecting the specified laboratory analyses was to collect sufficient laboratory data to characterize soil and groundwater that may be encountered within the MLK Corridor during construction activities in accordance with local, state, and federal regulations. The main COPCs identified in the MLK Corridor consist of petroleum constituents and solvents associated with the current and former commercial and industrial operations as well as the occurrence of underground petroleum storage tanks. Therefore, all soil and water samples were analyzed for the following suite of petroleum constituents:

- Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO) using Method 8015B;
- Total Petroleum Hydrocarbons-Gasoline Range Organics (TPH-GRO) using Method 8015B;
- Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX) using Method 8260B;
- Oil and Grease using Method 1664A/9071B;
- Extractable Organic Halides (EOX) in soils using Method 9023 or Total Organic Halides (TOX) in groundwater using Method 9020B.

At several commercial automotive and mechanical businesses along the south portion of Harbor Drive, and the industrial and railroad properties located south of Turnpike Road, a wider range of COPC were selected for analysis of some soil and groundwater samples. Additional analyses were performed on the selected soil and groundwater samples from borings within the proposed SWM ponds where significant volumes of soil may be excavated and construction dewatering will likely be required. These additional analyses consisted of:

- Volatile Organic Compounds (VOCs) using Method 8260B;
- Semi-Volatile Organic Compounds (SVOCs) using Method 8270C;
- Polychlorinated Biphenyls (PCBs) using Method 8082
- Total RCRA Metals using Method 6010B and total Mercury using Method 7470A/7471A

A previous investigation of the corridor identified storage of pesticides as COPC on Parcel 009, the Portsmouth Redevelopment and Housing Authority (PRHA) property. To determine the occurrence of pesticide/herbicide impacts, the following additional analyses were performed on soil and groundwater collected from this parcel:

- Herbicides using Method 8151A
- Organochlorine Pesticides using Method 8081A

Select soil samples collected from the boreholes within or near the proposed SWM ponds were also analyzed for RCRA Characteristic Waste properties. Toxicity Characteristic Leaching Procedure (TCLP) was used to extract leachate to complete the analysis. This data provides sufficient in-situ characterization to satisfy DEQ and receiving landfills during construction/excavation activities. The following analyses were performed on select soil samples to meet this end:

- TCLP Metals using Method 6010B and TCLP Mercury using Method 7470A/7471A
- TCLP VOCs using Method 8260B
- TCLP SVOCs using Method 8270C
- Sulfide using Method 9034
- Corrosivity (pH) using Method 9045C
- Ignitability using Method 1020B

All laboratory analyses were completed by TestAmerica in accordance with SW846 standard methods.

### 3.2.5. Quality Assurance and Controls

Quality assurance/quality control (QA/QC) samples were collected (11 duplicates, five trip blanks, and one field blank) to determine sample variability and to determine potential effects of field and laboratory procedures on sample analytical results. All QA/QC samples were treated in the same manner as the field samples.

Duplicate soil samples were collected by splitting representative portions of the two-foot soil sample between two sets of soil jars. In some cases, the laboratory analyses required more sample volume than provided by the two-foot section of soil in each Geoprobe™ run. In these cases, the Geoprobe™ was offset and another sample volume was collected immediately adjacent to the first sample. Duplicate groundwater samples were collected by splitting a groundwater sample between two sets of sample bottles. Duplicate samples were identified by adding "D" to the borehole ID for the sample. A total of five soil and six groundwater duplicate samples were submitted for analysis during the waste characterization activities.

One field blank (rinsate) sample was collected by running deionized water through a freshly decontaminated Geoprobe™ sample rod and collecting the rinsate using laboratory supplied containers. The field blank sample was submitted to the laboratory and analyzed for VOCs using Method 8260B to confirm effective decontamination of the non-dedicated sampling device between boreholes.

Trip blank samples were submitted to the laboratory to determine the presence or absence of a handling procedure error or interaction between the sample and its container that may alter the analytical results. Trip Blanks were supplied and labeled by the laboratory. A total of five trip blanks were submitted to the laboratory and analyzed for VOCs using Method 8260B during the field investigation activities.

TestAmerica, a National Environmental Laboratory Accreditation Conference (NELAC) and a Virginia Environmental Laboratory Accreditation Program (VDLAP) laboratory completed the all laboratory analyses and waste characterization. All samples were analyzed in accordance with SW846 Test Methods For Evaluating Solid Waste, Physical/Chemical Methods, Third Edition, November 1986 And Its Updates, and the laboratory's Quality Assurance Program Plan & Quality Assurance Protocols Manual.

### 3.2.6. Equipment Decontamination

FDI supplied multiple probe rods or auger flights to minimize decontamination time. All subsurface sampling equipment was properly decontaminated prior to arrival on site. Decontamination of drilling and subsurface sampling equipment was performed before and after use at each boring location, as needed. The Geoprobe™ rods and HSA split spoon samplers were decontaminated at each borehole and between each sample using scrub brushes and a biodegradable surfactant in a five-gallon bucket. Following cleaning, the rods and split spoon samplers were rinsed with deionized water. The rinsate and wash water was placed into a 55-gallon drum for off-site disposal at the end of each work day. Equipment or supplies that could not be effectively decontaminated (e.g., sample tubing, acetate sample liners, and polyethylene bailers) was disposed after each use.

### 3.2.7. Investigation Derived Waste

During the site characterization activities excess soil cuttings, purge water, and rinsate waste water were collected in a 55-gallon steel drum. A majority of the soil cuttings were returned to the borings from which the cuttings were generated; therefore, only one 55-gallon drum of investigation derived waste liquids and soils was generated. The container is being stored at a temporary staging area on Parcel 008 across from PRHA. All investigation derived waste will be characterized and properly disposed in accordance with local, state, and federal regulations.

### 3.2.8. Safety

EEE and SKW safety guidelines were followed during the field investigations. The field investigation team also followed VDOT standards for work within public ROW. The task leader, Paul Leeger, acted as site safety manager and was responsible for daily safety briefings and reviewing and amending all potential safety hazards and preventative procedures.

# 4. BACKGROUND INFORMATION

## 4.1. Physical Setting

The MTT/DTT/MLK Project lies entirely within the Tidewater area of the Atlantic Coastal Plain. The Coastal Plain Physiographic Province extends westward from the Atlantic Coast to the Piedmont Physiographic Province. The junction between these provinces is known as the Fall Line, a geologic boundary running approximately parallel to Interstate 95 that separates the igneous and metamorphic rocks of the Piedmont Physiographic Province from the unconsolidated and semi-consolidated sedimentary formations of the Coastal Plain Physiographic Province.

The topography of the Coastal Plain is a terraced landscape that stair-steps down to the coast and to the major rivers. The higher, older plains in the western part of the Coastal Plain are more dissected by stream erosion than the lower, younger terrace treads. Wide areas of Virginia's Coastal Plain are flat and low-lying. Tidal swamps and marshes border the rivers as far as the Fall Line. According to a topographic map of the area, the elevation throughout the Project Corridor is approximately 10 feet above mean sea level (msl). A topographic map is included as Figure 2.

The geology of the Project Corridor consists of Quaternary and Late Tertiary sands, silts, and clays overlying semi-consolidated sandstones, siltstones, and claystones of the various Middle and Early Tertiary and Cretaceous age formations. Most of the Project Corridor from London Boulevard to the Portsmouth approach to the MTT, and the Norfolk approach to the MTT are underlain by artificial manmade fill that was placed on top of various lowland sediments. The uppermost geologic unit within the MLK Corridor is the Quaternary–Age, Lynnhaven Member of the Tabb Formation. This formation consists of pebbly to cobbly, fine to coarse gray sand grading upward to clayey and silty fine sand and sandy silt (Mixon et al, 1989). According to the Natural Resources Conservation Service (NRCS), Web Soil Survey of the Tidewater Cities Area (1985), soils in the Project Corridor consist of Udorthents-Dumps Complex, Urban Land, and Tomotely-Urban Land Complex.

Groundwater within the Project Area occurs under water table conditions within the Tabb Formation and overlying fill materials. Groundwater was encountered in all the boreholes completed for this investigation at a depth of five feet bgs or less. Shallow groundwater flow is generally to the east toward the Elizabeth River. Figure 7 presents a conceptual water table map based on topography and surface water features. Horizontal hydraulic gradients are estimated to be 0.01 ft/ft or less. Based on field observations of grain size, the hydraulic conductivity of the Tabb Formation is estimated to range from $10^{-3}$ to $10^{-5}$ centimeters per second (cm/sec).

## 4.2. Current Land Use

Current land use within the MLK Corridor consists of industrial, commercial, and retail developments, vacant lots, and single and multi-family residential properties. A large parcel owned by CSX, part of which is leased to Vulcan Materials, lies in the southern part of the MLK Corridor, north of I-264.

Properties adjacent to the MLK Corridor from London Boulevard to Turnpike Road include single and multi-family residential properties, and several commercial/retail facilities. From Turnpike Road to I-264, most of the area consists of industrial developments including the CSX rail yard and Vulcan Materials. Most of the area south of I-264 consists of single and multi-family residential areas and various commercial and retail establishments. The area north of I-264 and west of the MLK Extension includes the City of Portsmouth Vehicle Maintenance Facility, the Norfolk & Portsmouth Belt Line (N&PBL) rail line, and Murro Chemical. East of the MLK Extension are single and multi-family residential properties along Columbus Avenue and South Street.

According to the City of Portsmouth Interactive mapping system, properties located within the Portsmouth Corridor along Harbor Drive from London Boulevard to Turnpike Road are within the Uptown D2 Form Based Code zoning district (mixed-use of diverse urban neighborhoods, commercial uses, and recreational). Properties along the corridor from Turnpike Road south to the CSX property are designated Light Industrial (IL), and from the CSX property to I-264 are designated Industrial (IN). Properties south of I-264 are designated Urban Residential (UR). Properties on the west side of I-264 are designated IL, High-Density Urban Residential (URH), and IN, and on the east side URH, UR, and IN.

## 4.3. Description of Project Improvements

The existing MLK Freeway connects US 58 between London Boulevard and VA 164 (Western Freeway) and the Midtown Tunnel. The proposed MLK Freeway Extension will extend the existing freeway south from its current terminus at London Boulevard to a new interchange at I-264. Ancillary improvements along I-264 in the vicinity of the interchange will also be included.

# 5. FINDINGS

This section presents the results of the subsurface investigations within the MLK Corridor. The analytical results are evaluated with respect to the RECs and site features presented in the CLER Report (EEE, 2012a). The soil and groundwater analytical results are also compared to various

regulatory standards and criteria in order to determine the regulatory status of the soil material and groundwater, and identify options for management of the materials during construction. The analytical data for metals are also compared to natural concentrations of metals in soils and groundwater to assist in evaluating the significance of the results.

## 5.1. Applicable Regulatory Standards and Criteria, and Natural Concentrations

Based on the Virginia Solid Waste Management Regulations (VSWMR) and the Virginia Hazardous Waste Management Regulations (VHWMR), the results of the soil analyses were used to classify the soils as a characteristic hazardous waste (Category 1), special solid waste (Category 2), PCB containing waste subject to the Toxic Substance Control Act (Category 3), non-hazardous solid waste (Category 4), and Clean Fill (Category 5). Table 3 presents the soil management matrix that includes the applicable criteria and management requirements and options.

For this report and in accordance with the VSWMR, the term “Clean Fill” (Category 5 in Table 3) includes soils impacted by a release of petroleum products where the concentrations of petroleum constituents are below the criteria set in 9VAC20-81-660. For this report, a sixth category (Category 6 in Table 3), Urban Soils, is used to include Urban or Anthropogenic soils that have been disturbed or affected by man. The Natural Resource Conservation Service (NRCS, 2005) cites a definition of Urban Soils as “soil material having a non-agricultural, manmade surface layer more than 50 cm (20 inches) thick that has been produced by mixing, filling, or by contamination of the land surface in urban and suburban areas.” In many soil surveys, Urban Soils are termed Udorthents. In this report, the term Urban Soils is used for disturbed soils that may have *de minimis* concentrations of some contaminants above expected background or natural soils where there is no definitive source of the contaminants found.

The soil analytical results were also compared to the Residential and Commercial/Industrial Use Risk Based Concentrations (RBC) used in the VDEQ Voluntary Remediation Program (VRP; 9 VAC 20-160-70) to assist in evaluating the significance of the concentrations. These RBCs are presented on the data tables in Attachment B.

Lastly, project specific data on background metal concentrations in soil are not available. In an urbanized setting such as the MLK Corridor, the metal content of nearly all soils have been affected by anthropogenic activities. Therefore, the soil metal data are compared to natural concentrations of metals in soils as reported in various studies by the U.S. Geological Survey and the U.S. Environmental Protection Agency (EPA). The data are presented in Table 4. This comparison provides another qualitative assessment of the concentrations detected.

Groundwater quality is an issue for management and potential discharge of groundwater entering temporary construction excavations, and the effect, if any, on post-construction water quality in the project SWM system. Discharge of groundwater inflows to temporary construction excavation will be in accordance with the Virginia Stormwater Management Permit (VSMP) Regulations (4VAC50-60) and the Virginia Pollutant Discharge Elimination System Permit (VPDES) Regulation (9VAC25).

Groundwater management during construction will be address in the Construction HMMP for the MLK Corridor.

The groundwater data was principally compared to the Aquatic Life - Acute Freshwater Virginia Water Quality Standards as any temporary discharge of groundwater from the MLK Corridor during construction would be to freshwater streams above the influence of local tidal waters. As with soil, project specific data on background groundwater quality are not available and local shallow groundwater has likely been affected by anthropogenic activities. Therefore, the metal concentrations detected in groundwater were compared to reported natural groundwater concentrations (Table 4) to qualify the significance of the results.

As some level of groundwater impairment from leaking USTs or historical releases of petroleum products is anticipated in limited areas of the MLK Corridor, the groundwater data were also compared to the effluent criteria in the Virginia Pollutant Discharge Elimination System Permit (VPDES) VAG 083 - Petroleum Contaminated Sites and Hydrostatic Tests (9VAC 25-120). Table 5 presents the VDPES effluent limits for this permit.

## 5.2. SWM Pond 8

Two boreholes (3E-Pond 8-69W and 3E-Pond 8-70W; Figure 8) were drilled to approximately 11 feet bgs in the central part of the proposed SWM Pond 8. Approximately two feet of sandy clay fill overlying sands and clayey sands of the Tabb Formation were encountered in the boreholes. The analytical data (Table 6) for the soil samples indicate near detection limit concentrations of TPH-DRO and up to 260 mg/kg of oil and grease. The groundwater analytical results (Table 7) also indicate very low levels of TPH-DRO, oil and grease, and EOX.

The laboratory detections may be attributed to run-off from the adjacent I-264, or may be residual from historical industrial use of this property that was acquired by VDOT in the early 1960s for construction of I-264. The soil materials meet VDEQ criteria for clean fill but are classified as Category 6 Urban Soils as there is no definitive contaminant source. The extremely low concentrations of TRH-DRO and EOX in the groundwater samples are probably typical of most shallow groundwater in and around the MLK Corridor.

Parcel P115 located at 2219 Frederick Boulevard immediately south of proposed SWM Pond 8 at the southeast corner of I-264 and Highway 17 (Frederick Blvd) is a VRP site. This 7.86-acre parcel was part of a larger industrial property that included a portion of the ROW acquired by VDOT in the 1960's for construction of I-264. SWM Pond 8 is proposed for construction on existing VDOT ROW between I-264 and Parcel P115.

From the early 1900's until 1976, this industrial parcel was owned and used by a guano company, a fertilizer tankage plant, and a concrete manufacturing plant. Parcel P115 was purchased by the City of Portsmouth in 1984 who sold the property to the Southeastern Public Service Authority (SPSA) in 1986 for a waste transfer facility that was never built. SPSA and prospective site buyer Harley Davidson-Bayside applied to and were accepted into the VRP. A Site Characterization and Risk Assessment Report prepared in April 2004 identified elevated concentrations of arsenic, lead, and mercury on the

northwest portion of Parcel P115. This report concluded that contamination in the soil at the site did not present an unacceptable risk to human health or the environment provided the institutional and engineering controls and their maintenance remain in place. Following some remediation (soil removal and installation of a soil, geotextile, and asphalt cap) a Certificate of Satisfactory Completion of Remediation was issued by VDEQ to SPSA and Harley Davidson-Bayside for the parcel. This certificate includes restrictive covenants on the property that prohibit the use of groundwater for any purpose except monitoring, prohibits land use for residential, daycare facilities, schools, and playgrounds, and prohibits excavation activities that could damage the engineering controls (soil, geotextile, and asphalt cap).

To EEE's knowledge no groundwater monitoring has been conducted at the property since 2004. However, groundwater flow (Figure 7) should be to the south away from SWM Pond 8.

## 5.3. I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road

Boreholes (3E-005-01 and 3E-006-02W; Figure 9) were drilled to approximately 11 feet bgs at a small area of asphalt millings and stained soils in the southeast corner of the City of Portsmouth Vehicle Maintenance Facility (Parcel 5) and approximately 20 feet west of the Norfolk & Portsmouth Belt Line rail road (Parcel 6), respectively. The borings were located at the approximate location of new piers to be installed east of the rail line for the lane addition to the I-264 bridge over the rail line. Approximately four feet of sandy silt fill overlying sands and clayey sands of the Tabb Formation were encountered in both boreholes. Approximately one foot of asphalt millings was found at the ground surface at borehole 3E-005-01 at the Vehicle Maintenance Facility. No rail road ballast was encountered at boring 3E-006-02W.

The analytical data (Table 8) for the soil sample from borehole 3E-005-01 indicate very low concentrations of oil and grease and TPH-DRO that are attributed to the asphalt millings. The concentration of oil and grease at borehole 3E-006-02W was below the laboratory limit of quantitation (LOQ) or reporting limit (RL). No TPH was detected. Naphthalene was detected at an estimated concentration below the LOQ. Arsenic (estimated below the LOQ) and chromium concentrations in 3E-006-02W were slightly above the residential RBC but well within the concentration range for these metals in natural soils.

Groundwater data from 3E-006-02W (Table 9) indicate insignificant levels (estimated below the LOQ) of THP-DRO and 1,2,4 trichlorobenzene, and low concentrations of metals below the Virginia Water Quality Standards.

The soil materials meet VDEQ criteria for clean fill. The soils at 3E-006-02w are classified as Category 6 Urban Soils as there is no definitive contaminant source. The estimated concentrations of TRH-DRO and 1,2,4 trichlorobenzene in the groundwater sample are insignificant and may be due to laboratory error. There is the potential that rail road ballast of unknown composition may be encountered in the two new piers to be installed east of the rail line. No borings were installed at the piers east of the rail line due to difficult site access. If the ballast is encountered and needs to be disposed of off-site then additional testing of the ballast may be required to determine its regulatory classification.

## 5.4. Portsmouth Redevelopment and Housing Authority and SWM Pond 14

A total of nine boreholes were drilled on existing VDOT and City of Portsmouth ROW, and Parcels 007, 008, 009, and 010 in and around the Portsmouth Redevelopment and Housing Authority (PRHA) property and proposed SWM Pond 14. Borehole locations are shown on Figures 10, 11, and 12. A total of nine soil samples and eight groundwater samples were submitted for laboratory analysis.

The borehole logs indicate two to four feet of gravelly sandy fill overlying the Tabb Formation. Groundwater was generally encountered at a depth of approximately four feet bgs.

The soil laboratory data (Table 10) indicate petroleum impacts to shallow soils at borings 3E-008-6W and 3E-009-7W along Columbus Avenue where proposed Ramps SE and EN will be constructed. The TPH-DRO and total benzene, toluene, ethyl benzene, and xylene (BTEX) data at 3E-009-7W exceed VDEQ criteria for clean fill and would be classified as Category 2-Special Solid Waste (See Table 3) due to the total BTEX concentrations. Excess Category 2 soils that cannot be placed back into the excavation from which they were derived or on soils with similar concentrations, must be disposed of at a landfill or treatment facility permitted to accept soils with these concentrations. A low concentration of both TPH-DRO and TPH-GRO were detected at a depth of 5 to 7 feet bgs at boring 3E-008-06W.

The extent of soil with petroleum constituents exceeding the clean fill criteria (see Figure 12) is estimated to be limited to the immediate area around the former 6,000-gallon gasoline UST located north of the PRHA office (near MLK Bridge Station 1004) that was closed by removal in the 1996. Based on the tank closure and site characterization reports completed by Fisher Environmental Services, P.C. soil TPH levels in the tank excavation were as high as 8,020 mg/kg. VDEQ did not require further remediation at this leaking UST site and the case was closed. Two 1,000-gallon gasoline USTs located south of the PRHA office were closed at the same time. Soil TPH levels up to 816 mg/kg were found in the tank excavations. VDEQ did not require any follow-up investigations of these USTs.

Four boreholes and test wells were completed by MM&A (2009) along Columbus Avenue immediately west of the PRHA office. A soil TPH concentration of 15 mg/kg was the only detectable concentration documented in one borehole under this investigation.

The exact extent of petroleum contamination cannot be fully defined as petroleum constituents may have migrated along subsurface utility trenches or other preferential migration pathways. Petroleum contaminated soils are likely limited to the area along Columbus Avenue immediately west of the PRHA office and does not appear to extend into the proposed area for SWM Pond 14. Petroleum contaminated soil may be encountered along Columbus Avenue during bridge pier construction, installation of any subsurface conveyance structures to or from SWM Pond 14, utility relocations, and any other ground disturbance in this area.

Low concentrations of PCBs were also detected in the soil samples collected from borings 3E-008-6W (5-7 feet deep) and 3E-009-7W (1-3 feet deep). Pesticides and herbicides were detected in the soil sample from 3E-009-7W. The source of the PCBs and pesticides/herbicides found at 3E-009-7W is probably from stormwater runoff from exterior areas on the PRHA facility where PCB containing transformers and pesticide/herbicides containers were historically stored. The source of the PCBs

found at 3E-008-6W is not known. No PCBs were detected in the other soil samples collected from PRHA and proposed SWM Pond 14.

The groundwater laboratory data (Table 11) indicate near detection limits concentrations of petroleum constituents at 3E-009-7W. The very low TPH-DRO and TOX concentrations detected in the other groundwater samples are not significant and are probably representative of background groundwater concentrations in the area. The concentrations of petroleum constituents were all well below the effluents limits for the VAG 083 general permit. Lead was detected in one sample above the Virginia Water Quality Standards. The detected lead concentration is likely due to the dissolution of lead in the suspended sediment of the sample. No PCBs or pesticides/herbicides were detected in the groundwater samples collected at 3E-008-6W or 3E-009-7W. Based on these data and previous data from the UST closures, groundwater contamination is likely limited to the same approximate area of soil contamination shown on Figure 12.

## 5.5. Ramp SW and MLK Mainline

Six boreholes (3E-VDOT-13, 3E-VDOT-14W, 3E-VDOT-14WD, 3E-012-16, 3E-012-17W, and 3E-012-19W) were drilled along the proposed location of Ramp SW and the MLK Mainline within the VDOT ROW for Columbus Avenue and the CSX Vacant Lot (Parcel 12). Borehole locations are shown on Figure 13. A total of six soil samples and four water samples were submitted for laboratory analysis.

The borehole logs (Attachment A) indicate two to four feet of gravelly sandy fill overlying the Tabb Formation. Groundwater was generally encountered at a depth of approximately four feet bgs.

The soils laboratory data (Table 12) indicate negligible concentrations of oil and grease at all the boreholes and minor TPH-DRO concentrations at boreholes 3E-VDOT-13 and 3E-VDOT-14W near the Murro Chemical Property. The low TPH-DRO levels may be due to run-off from the adjacent Columbus Avenue or possibly Murro Chemical. Arsenic and chromium concentrations in the soil were above the residential and industrial RBC levels, respectively, but well within the range for natural soils (Table 4). All soil samples meet the VDEQ criteria for clean fill. The soils are classified as Urban Soil – Category 6.

The groundwater data (Table 13) indicate near detection limits concentrations of TPH-DRO and TOX at 3E-VDOT-14W, 3E-012-17W, and 3E-012-19W. Arsenic, barium (19W only), chromium, and lead concentrations at 3E-012-17W, and 3E-012-19W were above the Virginia Freshwater Water Quality Standards. The significance of the groundwater metal concentrations is more difficult to evaluate as the samples were collected from open boreholes and contain significant amounts of suspended sediment. Metals within the sediment go into solution when the sample is preserved with nitric acid to adjust the sample pH to approximately 2 Standard Units (SU). The detected groundwater metal concentrations are likely due to the dissolution of metals from the suspended sediment and are not-representative of in-situ dissolved metal concentrations or the concentrations of metal in groundwater that may enter a construction excavation in this area.

## 5.6. Ramp WM and SWM Ponds 19 and 20

Eight boreholes (3E-012-20, 3E-015-21W, 3E-015-22W, 3E-VDOT-23W, 3E-017-24W, 3E-VDOT-25W, 3E-VDOT-26W, and 3E-VDOT-68W), two hand auger holes (3E-082-82, and 3E-082-83) and one shovel soil sample (3E-015-80) were completed along Ramp WM and the proposed locations of SWM Ponds 19 and 20. The borehole and groundwater sampling locations are shown on Figures 14, 15, 16, and 17. A total of nine soil samples and seven water samples were submitted for laboratory analysis. The borehole logs (Attachment A) indicate one to three feet of gravelly sandy silt fill overlying the Tabb Formation. Groundwater was generally encountered at a depth of approximately four feet bgs.

### 5.6.1. SWM Pond 19

The soils laboratory data (Table 14) for boreholes (3E-015-21W, 3E-015-22W, 3E-VDOT-23W, 3E-017-24W), indicate negligible concentrations of oil and grease and minor TPH-DRO concentrations in one of the four soil samples from the boreholes. The arsenic and chromium concentrations were above VRP RBCs but well within the range of metal concentrations in natural soils. Two hand auger holes were completed in the numerous piles of fill soils located within Parcel 82 between Parcels 15 and 12. The piles consist of loose silts and sands. No evidence of contamination was observed and no samples were collected for laboratory analysis. The soils represented by these samples are considered Category 6-Urban Soil.

Shovel soil sample (3E-015-80) had high levels of TPH-DRO above the clean fill criteria (Category 4), and oil and grease. The impacted soils represented by this sample appear to be a small surface spill of a petroleum product (diesel fuel or possible hydraulic oil). The total extent of impacted soil is estimated at approximately 30 square feet and one foot deep.

The groundwater laboratory data (Table 15) indicate near detection limits concentrations of TPH-DRO and TOX. Metal concentrations were less than the Virginia Water Quality Standards.

The investigation results for SWM Pond 19 on Parcel 15 do not indicate any specific environmental impacts from the adjacent HERC/BCSC property to the west. As documented in EEE (2012a, 2012b), the HERC/BCSC property has numerous historical and current RECs resulting from the operation of multiple businesses involved in the collection, storage, treatment, and transfer of waste oils and oily waste water, and the production and use of specialty cleaning products including strong acids and bases for cleaning of industrial pipes and boilers. These businesses have operated on the property since 1988 through 2010.

The HERC/BCSC Property is listed on seven (7) records in the SPILLS database under various owners or responsible parties. The spills included the following:

- 1996 - Reported release of “monkey” (petroleum tank bottoms) to ground
- 1996 - Poor housekeeping and oil on ground noted during VDEQ inspection
- 1997 - Solid waste and drums improperly stored noted during VDEQ inspection
- 1997 - Tanker truck leaked 3,000 gallon of petroleum products to vacant lot (?)

- 1998 - Reported tank cleaning products on ground
- 2000 - 20,000-gallons oil spill caused by broken manifold
- 2002 – Unspecified oil release
- 2002 - 6,000-gallon (material not reported)
- 2004 - Storage of drums containing solid waste
- 2007 - Oil spillage and open containers noted during VDEQ inspection

According to the EDR report, all of the SPILLS cases have been closed, indicating no further action was warranted or if a SPILLS case went unresolved for five years, the file is destroyed and termed "closed" whether it was resolved or not. As a result, many of the SPILLS at the HERC/BCSC Property were probably never resolved.

MM&A (2009) completed a subsurface investigation at the HERC/BCSC Property that identified petroleum, metals, volatile organic compounds (VOCs), and semi- SVOCs in soil and groundwater at the site. The highest concentrations were found along the northern property boundary, and near the tank farm and drum storage area.

The recent August 24, 2012 fire at the facility may have released additional contaminants to the subsurface or the adjoining Parcel 15.

### 5.6.2. SWM Pond 20

The soils laboratory data (Table 14) for boreholes (3E-VDOT-25W, 3E-VDOT-26W, and 3E-VDOT-68W) indicate negligible concentrations of oil and grease and minor TPH-DRO concentrations in all three soil samples. The arsenic and chromium concentrations were above VRP RBCs but well within the range of metal concentrations in natural soils. The soils represented by these samples are considered Category 6-Urban Soil.

The groundwater laboratory data (Table 15) indicate near detection limits concentrations of TPH-DRO and TOX. Metal concentrations were less than the Virginia Water Quality Standards.

### 5.6.3. MLK Mainline

Boring 3E-012-20 was drilled just north of the HERC/BCSC Property and just south of the first CSX rail tracks (Figure 17) along the extension of Ramp WN to the north. The soils laboratory data (Table 14) indicate negligible concentration of oil and grease. The soils represented by this sample are considered Category 6-Urban Soil.

## 5.7. CSX and Vulcan Properties

Six boreholes (3E-012-28W, 3E-012-29W, 3E-012-31W, 3E-012-32, 3E-012-33W, and 3E-012-35W) were advanced on the CSX Rail Yard property (Parcel 012) and Vulcan Materials lease area. Borehole

locations are shown on Figures 17 and 18. Six soil samples and five groundwater samples were submitted for laboratory analysis.

The borehole logs indicate three to nine feet of gravelly sand and silty sand fill overlying coarse sands of the Tabb Formation. Groundwater was encountered in these borings at depths from three to four feet bgs.

The laboratory soil data (Table 16) indicate petroleum impacted soils above clean fill criteria at all borings with the exception to 3E-012-29W. The soil sample at 3E-012-35W had total TPH concentrations (TPH-DRO = 710 mg/kg, and TPH-GRO = 12 mg/kg) above 500 mg/kg and are classified as Category 2-Special Solid Waste. Excess Category 2 soils that cannot be placed back into the excavation from which they were derived or on soils with similar concentrations, must be disposed of at a landfill or treatment facility permitted to accept soils with these concentrations. Reported TPH concentrations in borings 3E-012-28W, 3E-012-31W, 3E-012-32, and 3E-012-33W indicate Category 4 soils. Soil with petroleum constituent concentrations in this range can be disposed at most Subtitle D landfills or permitted treatment facilities.

The SVOC analyses of soil samples from 3E-012-29W and, to a lesser degree 3E-012-33W, indicate numerous polycyclic aromatic hydrocarbons (PAH). PAHs are a group of organic compounds commonly found in rail yards that form from the incomplete combustion of hydrocarbons, such as coal, wood, diesel, and gasoline. PAHs are an environmental concern due to their toxicity to aquatic life and because several are suspected human carcinogens. Although the PAH concentrations in the two soil samples are relatively low, several of the PAHs detected such as benzo(a) pyrene, benzo(a)anthracene, benzo(b) fluoranthene, bis(2-ethylhexyl) phthalate, chrysene, and dibenzo(a,h) anthracene exceed the VRP RBCs for industrial use. The TPH and SVOC data indicate the level of TPH and PAH impacts within the CSX property are highly variable, and appropriate environmental monitoring and worker protection should be employed for all construction activities on CSX property. Although TPH levels in 3E-012-29W meet the clean fill criteria, it is not recommended that these soils be managed as clean fill due to the concentrations of PAH. Therefore, this soil sample is also considered to be a Category 4 soil.

Arsenic and chromium were reported in concentrations exceeding the VRP RBCs in soils. However, the reported concentrations are well within range for metal concentrations in natural soils (Table 4).

The MM&A (2010) investigation of the CSX property reported similar findings to this report. Most soil samples had elevated levels of petroleum hydrocarbons above the clean fill criteria, and oil and grease. One shallow soil sample had a lead concentration of 5.19 milligrams per liter (mg/L) in the TCLP analyses, which is slightly above the limit of 5 mg/L lead concentration that defines a RCRA Characteristic Hazardous Waste under the Virginia Hazardous Waste Management Regulations (VHWMR) and 40 CFR Part 261. Analysis of a soil sample from a slightly greater depth had a minimal lead concentration. The TCLP concentration of lead and the other RCRA metals in soil samples from borings 3E-012-29W (near the MM&A boring) and 3E-012-33W were well below the Characteristic Hazardous Waste criteria.

The groundwater data (Table 17) indicate very low concentrations of petroleum constituents, VOCs, and SVOCs. All metal detections were below Virginia Water Quality Standards. The concentrations

of petroleum constituents were all well below the effluents limits for the VAG 083 general permit. The groundwater data are consistent with the MM&A (2010) results.

## 5.8. Old Dominion Demolition and SWM Pond 24

Eleven boreholes (3E-024-37, 3E-024-38W, 3E-025-39, 3E-025-40W, 3E-025-41W, 3E-029-42W, 3E-025-43W, 3E-025-44W, 3E-025-45W, 3E-025-46W, and 3E-024-81) were drilled on Parcels 024 (Old Dominion Demolition), 025 (Former Bill Lewis Chevrolet), and 029 (Ricks Property) in the vicinity of the proposed Pond 24 between Columbia Street and Turnpike Road. Borehole and groundwater sampling locations are shown on Figures 18 and 19. Twelve soil samples and eight groundwater samples were submitted for laboratory analysis.

The borehole logs indicate up to five feet of gravelly sandy and clayey silt fill overlying coarse sands of the Tabb Formation. Groundwater was generally encountered at an average depth of approximately four feet bgs.

The soils laboratory data (Table 18) indicate petroleum impacts to soils above the clean fill at borings 3E-024-37, 3E-024-38W, 3E-025-41W, and 3E-025-46W. Surficial soils (0-1') at 3E-025-041W contained a TPH concentration of 2,900 mg/kg. This sample was collected from an apparent surface spill of petroleum products with limited extent. Soils with TPH concentrations greater than 500 mg/kg are considered to be Category 2 Special Solid Waste. The concentrations of TPH at borings 3E-024-37, 3E-024-38W, and 3E-025-46W indicate Category 4 soils in these areas. The remaining soil samples either indicate minor petroleum contamination below the clean fill criteria (Category 5) or Urban Soils (Category 6).

SVOC data from boreholes 3E-024-38W, 3E-025-40W, and 3E-025-44W indicate that numerous SVOCs were detected at or just below the LOQ. Many of these SVOCs are PAHs. The PAHs are most likely contained within the layer of dark gray-black fill material that was found in nearly all boreholes in this area at three to four feet bgs. The fill may have come from the adjacent CSX rail yard. The PAHs may also be due to releases of petroleum products to the ground surface.

The soil samples had concentrations of arsenic and chromium above the VRP RBCs but well within the range for metal concentrations in natural soils.

The groundwater laboratory data (Table 19) indicate very low concentrations of petroleum constituents at all borings. The concentrations of petroleum constituents were all well below the effluents limits for the VAG 083 general permit. All metal detections were below Virginia Water Quality Standards with the exception of the estimated cadmium concentration in 3E-025-40W.

Figures 20 and 21 show the areal distribution of Total TPH (TPH-DRO plus TPH-GRO), Total BTEX, and Total VOC concentrations for the soil and groundwater samples, respectively, collected from within and around proposed SWM Pond 24. The cross-sections included as Figures 22 and 23 show the Total TPH and BTEX concentrations and the estimated extent of soils exceeding the clean fill criteria at Pond 24. The depiction of SWM Pond 24 is based on design drawings as of August 17, 2012 and may not reflect current design. As shown on these figures, petroleum impacted soils include a small area on Parcel 025 apparently from a surface spill, an area on Old Dominion Demolition (Parcel 026) near the

southwest corner of proposed SWM Pond 24, and an area in the northeast corner of proposed SWM Pond 24 that may be related to a former leaking UST at the former Amoco Station on the adjacent property (Parcel P459).

The extent of petroleum contamination cannot be fully defined as petroleum constituents may have migrated along subsurface utility trenches or other preferential migration pathways. Petroleum contaminated soil may be encountered during bridge pier construction, installation of any subsurface conveyance structures to or from proposed SWM Pond 24, utility relocations, and any other ground disturbance in this area. Excess petroleum impacted soils that cannot be placed back into the excavation from which they were derived or on soils with similar concentrations, must be disposed of at a landfill or treatment facility permitted to accept soils with the TPH concentrations found.

The groundwater laboratory data indicate very low concentrations of petroleum constituents at all borings. The concentrations of petroleum constituents were all well below the effluents limits for the VAG 083 general permit. It also noted that the environmental records for Old Dominion Demolition (EE, 2012) list one UST as permanently out of use. The status and location of this UST is not known and may still be present on site.

## 5.9. South Harbor Drive and SWM Pond 25

Nine boreholes (3E-031-47W, 3E-032-48W, 3E-034-49W, 3E-034-50W, 3E-VDOT-51W, 3E-031-52W, 3E-033-53W, 3E-VDOT-54W, and 3E-VDOT-55W) were drilled on Parcels 031 through 034 and the VDOT and City of Portsmouth ROW in the vicinity of the proposed SWM Pond 25 between County Street and Turnpike Road. Borehole locations are shown on Figure 19. Nine soil and groundwater samples were submitted for laboratory analysis.

The borehole logs indicate two to four feet of gravelly sandy and clayey silt fill overlying coarse sands of the Tabb Formation. Groundwater was generally encountered at an average depth of approximately four feet.

The soil laboratory data (Table 20) indicate petroleum impact to soils at boring 3E-034-49W. The total TPH (TPH-DRO plus TPH-GRO) concentration of 130 mg/kg detected in the sample collected at 3E-034-49W exceeds the clean fill criteria. Soils with TPH levels of 130 mg/kg are classified as Category 4. All other soils sampled are classified as Category 6-Urban Soils.

The estimated (below LOQ) levels of various VOCs and SVOCs reported in the soil samples collected from 3E-VDOT-51W and 3E-031-52W may be due to laboratory variability or field contamination. Arsenic and chromium were reported in concentrations exceeding VRP RBCs but at concentrations well within the range of metal concentrations in natural soils.

The groundwater laboratory data (Table 21) indicate low concentrations of petroleum constituents at all borings. The concentrations of petroleum constituents were all well below the effluents limits for the VAG 083 general permit. Low concentrations of metals were reported in groundwater collected from 3E-VDOT-51W and 3E-031-52W. All metal detections were well below Virginia Water Quality Standards.

The detections of petroleum constituents are likely resultant from the historical use of the Parcels 31-34 by the Bill Lewis Chevrolet dealer, and the use of multiple USTs on the parcels. The environmental records for Bill Lewis Chevrolet (EEE, 2012a) indicate that there are three USTs closed in place on Parcel 32. The exact locations of the USTs are unknown but believed to be under the floor slab of the existing building. Three pollution complaints at Bill Lewis Chevrolet involved the discovery of petroleum contamination and in one case free product in the subsurface.

Figures 24 and 25 show the areal distribution of Total TPH (TPH-DRO plus TPH-GRO), Total BTEX, and Total VOC concentrations for the soil and groundwater samples, respectively, collected from within and around SWM Pond 24. The cross-sections included as Figures 26 and 27 show the Total TPH and BTEX concentrations and the estimated extent of soils exceeding the clean fill criteria around SWM Pond 25. The depiction of SWM Pond 25 is based on design drawings as of August 17, 2012 and may not reflect current design. As shown, soils exceeding the clean fill criteria are limited to the area around 3E-034-49W, which may not extend to soils within the proposed SWM Pond 25 excavation limits. The impacted soils at this located may be due to the documented leaking UST at the former Amoco Station (Parcel P549), the former service station/dry cleaner owned by Ollie Wilkens that was located at the southeast corner of the Bethel Temple Church (Parcel 035) at 620 Constitution Avenue near County Street, or the former service station/restaurant that was located at the triangle area formed by Turnpike Road, Constitution Avenue, and Meander Road.

The extent of petroleum contamination cannot be fully defined as petroleum constituents may have migrated along subsurface utility trenches or other preferential migration pathways. Petroleum contaminated soil may be encountered during bridge pier construction, installation of any subsurface conveyance structures to or from SWM Pond 25, utility relocations, and any other ground disturbance in this area. Excess petroleum impacted soils that cannot be placed back into the excavation from which they were derived or on soils with similar concentrations, must be disposed of at a landfill or treatment facility permitted to accept soils with the TPH concentrations found.

## 5.10. North Harbor Drive and SWM Pond 30

Nine boreholes (3E-036-56, 3E-037-57, 3E-VDOT-59, 3E-046-61, 3E-054-62, 3E-054-63, 3E-059-65, 3E-VDOT-66W, and 3E-VDOT-67W; Figures 28 and 29) were drilled to approximately 11 feet along Harbor Drive between County Street and London Boulevard, and in the VDOT ROW at the proposed SWM Pond 30.

The borehole logs indicate one to four feet of fill overlying coarse sands and silty sands of the Tabb Formation. Groundwater was generally encountered at approximately four feet bgs.

Soil samples from two boreholes (3E-VDOT-59, 3E-054-63) were not submitted for laboratory analysis due to the lack of point contaminant sources and the absence of observations of contamination in the field. The soil analytical data (Table 22) indicate near detection limit concentrations of oil and grease and TPH-DRO. The soils represented by these samples are classified as Urban Soils.

Groundwater samples from the borings along Harbor Drive were not collected as no dewatering in this area is expected during construction and no petroleum contamination was observed in the field. The

groundwater laboratory results (Table 23) from the boreholes at proposed SWM Pond 30 (3E-VDOT-66W and 3E-VDOT-67W) indicate very low levels of TPH-DRO, oil and grease, and TOX. These detections may be associated with run-off from the adjacent highways or the railroad to the west.

## 5.11. Data Assessment

This section presents an evaluation of the sampling and analysis procedures, protocols, and results to meet the objectives of the hazardous material investigation. As stated in Section 2.2, the objectives of the investigation are to provide sufficient information regarding the occurrence, approximate quantities, and regulatory classification of contaminated soil and groundwater likely to be encountered within the MLK Corridor. The results of these investigations will be used in the Construction Hazardous Material Management Plan (HMMP) for the MLK Corridor to identify on-site and off-site management options for soil and groundwater generated during construction in compliance with applicable laws and regulations, identify potential worker exposure to contaminants in order to develop appropriate personal protection practices, and for the effective application of construction resources.

The data assessment process included a sampling assessment and an analytical assessment. The data assessment was completed in accordance with the following guidance:

- RCRA Waste Sampling Draft Technical Guidance, (USEPA 1999)
- SW-846 Test Methods for Evaluating Solid Waste, SW-846 (USEPA 1986b)
- EPA Guidance for Quality Assurance Project Plans, EPA QA/G-5 (USEPA 1998a)
- Sampler's Guide to the Contract Laboratory Program (USEPA 1996e)

Since the purpose of the investigation was for contaminant identification for waste characterization and development of soil and groundwater management options for construction of the MLK Extension, the sampling and analysis was not subject to the data validation requirements found in the U.S. EPA guidance document Innovative Approaches for Validation of Organic and Inorganic Data.

### 5.11.1. Sampling Assessment

The sampling assessment is a review of the field sampling and sample management methods to check conformance with EEE's Standard Operating Procedures (SOPs) for drilling, sample collection, and sample handling activities, EEE's Project QA/QC Plan, FDI Standard Operating Procedures, applicable ASTM Standards 1999b, 1999c, 5434, and 6282, and other applicable regulatory guidance documents, and the work plan for Task 3. The final sampling and analysis table in the work plan included a total of 67 boreholes. The number and location of the boreholes were adjusted in the field based on the results of field reconnaissance completed under EEE Task 1, field observations, and access limitations. A total of 62 boreholes were actually completed. Some boreholes along Harbor Drive were eliminated as the Task 1 results indicated no potential sources of contamination. Several boreholes within the CSX/Vulcan properties that were targeted for installation at the opposite ends of bridge piers were consolidated to one boring.

Field sampling procedures were audited by senior project staff on August 6, 2012. All sampling procedures observed were consistent with project plans. In some cases, secondary boreholes had to

be completed immediately adjacent to the original borehole in order to obtain the necessary sample volume for the laboratory analyses.

In some cases, the analyses completed on samples from specific boreholes varied from the work plan based on field conditions and observations. However, the sampling and analysis completed met the project objectives for identification and classification of potentially contaminated soil and groundwater.

EEE's project SOPs also specified the collection of replicate samples, field blank (equipment rinse blank), and trip blanks. A total of 56 soil samples and 43 groundwater samples were collected and submitted to the laboratory for analysis. A total of 11 field duplicate samples (5 soil samples and 6 groundwater samples), one field blank, and five trip blanks were also collected and submitted to the laboratory for analysis. A limited number of field blanks were collected because all samples, with the exception of two soil and groundwater samples collected from the HSA borings, were collected with dedicated field sampling equipment that was not reused.

Field/Equipment Blank

The field or equipment blank was used to evaluate potential cross-contamination of samples through sample and equipment handling. The results (Attachment B) show there were no detected constituents, indicating no cross contamination of samples through the sample and equipment handling.

Trip Blanks

A trip blank is a sample bottle filled with contaminant-free water at the laboratory which is shipped to and from the field with the sample containers. It is used to assess the effects of shipping and handling activities on sample data. Five trip blanks were provided and re-submitted to the laboratory for analysis. The only detection reported for all five trip blanks was methylene chloride at 0.023 J ug/L (Attachment B). This reported value is qualified as being an estimated value (J) since the value is below the reporting limit but above the method detection limit. Since methylene chloride is a common laboratory contaminant, the very low level detected for this constituent was attributed to laboratory contamination. Overall, the laboratory results indicate there was no potential contamination from shipping and handling activities.

Field Duplicates

A field duplicate is an environmental sample that is divided into two separate samples. The samples are processed separately, and the results are compared to evaluate the overall precision. These analyses measure both field and laboratory precision. Therefore, the results may have greater variability than laboratory duplicates, which measure only laboratory precision. The results for the 11 field duplicate samples were compared, and the relative percent difference (RPD) was evaluated between the duplicate samples as shown in Tables 24 and 25. Generally, RPDs of 35% or less indicate good field sampling and analytical precision. However, EPA Region III Validation Guidelines do not specify qualifiers or criteria for field duplicates; therefore, professional judgment was used to determine qualification.

Several duplicate samples had RPDs greater than 35%. In general, the samples with RPDs greater than 35% are associated with soil samples collected in areas with a varying sample matrix. High RPDs for groundwater samples are attributed to minor variability in field duplicate sample collection procedures, and the variability in sediment content of the collected groundwater samples. Sediment content in a representative groundwater sample can limit the usability of the metals data because the sample preservative dissolves metals present in the suspended sediment. This can result in reported concentrations that are not representative of in-situ dissolved metal concentrations. Analytical results for all the samples, including duplicates, are presented in this report. However, since the intent of the project was to determine appropriate waste characterization and management of the soils and groundwater, the highest levels reported for the soil and groundwater samples that had duplicate analysis were considered. Hence, no data was qualified due to the variability reported in the field duplicates.

### 5.11.2. Analytical Assessment

All samples were submitted to TestAmerica for analysis. TestAmerica provided a case narrative for each laboratory work order which included quality assurance information on holding times, laboratory precision, bias, method detection limits, spike recovery, surrogate and internal standard recovery. The case narrative also included a summary of any QA/QC exceptions that resulted in flagged data. The laboratory results and case narratives are presented in Attachment B.

The analytical assessment indicates the data are acceptable for its intended use of contaminant identification and waste characterization. The analytical assessment identified several minor deficiencies with the analytical data, but none of the deficiencies impacted the use of the data for waste characterization. A discussion of the minor deficiencies is included below.

Sample Receipt

TestAmerica received all of the samples by courier. All samples were received with a chain-of-custody in acceptable condition and at acceptable temperatures except for a broken soil jar for sample 22W @ 2-4', broken 1 liter amber unpreserved bottles for samples 22W and 26W, broken preserved sample for 23W that was replaced with a preserved 1 Liter amber bottle sample, and spilt samples taken from a single sample for 22W and 24W to perform TOX analyses. Because the conditions mentioned above did not affect the quality of the samples, no data was qualified due to sample receipt.

Total Petroleum Hydrocarbon

TestAmerica reported multiple instances where surrogate recovery requirements were not met and re-extraction and/or re-analysis was necessary for several samples for TPH-GRO and TPH-DRO analyses. The re-extraction and/or re-analysis were performed outside the holding times for the analyses. The original laboratory results were compared to the results from re-extraction and/or re-analysis. Since, the comparison revealed that detections were higher in the original analysis, it was decided that it was prudent to present the results from the original analysis in the report tables.

Oil & Grease

Oil and grease was detected in several method blanks at levels exceeding the reporting limit. The results for the associated samples were flagged with a “B” qualifier and were considered as estimates.

Metals

Barium, selenium and mercury were detected in several method blanks at levels exceeding the method detection limits but below the reporting limit. The results for the associated samples were flagged with a “B” qualifier. Several samples had detections for several different metals above the method detection limits but below the reporting limits. These data were reported with a “J” qualifier and were considered estimates.

Volatiles Analysis

Several samples had detections for several different VOCs above the method detection limits but below the reporting limits. These data were reported with a “J” qualifier and were considered estimates.

Semi Volatiles Analysis

Several samples had detections for several different SVOCs above the method detection limits but below the reporting limits. These data were reported with a “J” qualifier and were considered estimates.

PCBs

No quality or analytical issues were noted for this analysis. None of the reported data was qualified.

Pesticides and Herbicides

Several samples had detections for several different pesticides and herbicides above the method detection limits but below the reporting limits. These data were reported with a “J” qualifier and were considered estimates. Several data have been reported with a “p” qualifier. This qualifier is appended for samples where the %RPD between the primary and confirmation column/detector is >40%. For these samples, the lower value was reported.

# 6. SUMMARY AND CONCLUSIONS

The results of the subsurface investigations within the MLK Corridor were evaluated with respect to the RECs and site features presented in the CLER Report (EEE, 2012a). The soil and groundwater analytical results were also compared to various regulatory standards and criteria in order to determine the regulatory status of the soil material and groundwater, and identify options for management of the materials during construction.

## 6.1. SWM Pond 8

The investigations results for SWM Pond 8 located within existing VDOT ROW indicate no significant contamination. The very low laboratory detections of TPH-DRO, oil and grease, and EOX

(groundwater only) in the soil and groundwater samples may be associated with runoff from the adjacent I-264, or may be residual from historical industrial use of this property that was acquired by VDOT in the early 1960s for construction of I-264. The soil materials meet VDEQ criteria for clean fill but are classified as Category 6 Urban Soils as there is no definitive contaminant source.

## 6.2. I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road

Two boreholes were drilled at the approximate location of the two eastern piers for the proposed expansion of the I-264 bridge over the NPBL rail road. Approximately one foot of asphalt millings was found at the ground surface at borehole 3E-005-01 at the Portsmouth Vehicle Maintenance Facility. No rail road ballast was encountered at boring 3E-006-02W within the NPBL rail road property. The investigation results do not indicate any significant contamination. The soil materials meet VDEQ criteria for clean fill. The soils at 3E-006-02w are classified as Category 6-Urban Soils as there is no definitive contaminant source. The estimated concentrations of TRH-DRO and 1,2,4 trichlorobenzene in the groundwater sample are insignificant and may be due to laboratory error. There is the potential that rail road ballast of unknown composition may be encountered in the two new bridge piers to be installed east of the rail line. No borings were installed at the piers east of the rail line due to difficult site access. If the ballast is encountered and needs to be disposed of off-site then additional testing of the ballast may be required to determine its regulatory classification.

## 6.3. Portsmouth Redevelopment and Housing Authority and SWM Pond 14

The soil laboratory data indicate petroleum impacts to shallow soils along Columbus Avenue where proposed Ramps SE and EN will be constructed. The extent of soil with petroleum constituents exceeding the clean fill criteria is estimated to be limited to the immediate area around the former 6,000-gallon gasoline UST located north of the PRHA office (near MLK Bridge Station 1004) that was closed by removal in the 1996. The extent of petroleum contamination cannot be fully defined as petroleum constituents may have migrated along subsurface utility trenches or other preferential migration pathways. Petroleum soil contamination is likely limited to the area along Columbus Avenue immediately west of the PRHA office and does not appear to extend into the proposed area for SWM Pond 14. Petroleum contaminated soil may be encountered along Columbus Avenue during bridge pier construction, installation of any subsurface conveyance structures to or from SWM Pond 14, utility relocations, and any other ground disturbance in this area.

Low concentrations of PCBs were also detected in the soil samples from borings 3E-008-6W (5-7 feet bgs) and 3E-009-7W (1-3 feet bgs). Pesticides and herbicides were detected in the soil sample from 3E-009-7W. The source of the PCBs and pesticides/herbicides found at 3E-009-7W is likely associated with stormwater runoff from exterior areas on the PRHA facility where PCB containing transformers and pesticide/herbicides containers were historically stored. The source of the PCBs found at 3E-008-6W is not known. The full extent of PCB and pesticide/herbicide contaminated soil is not known. Additional PCB analyses of the other soil samples collected in this area are currently being performed and will be incorporated into the final report.

Based on these data and previous data from the UST closures, groundwater contamination is probably limited to the same approximate area of soil contamination. The concentrations of petroleum constituents were all well below the effluents limits for the VAG 083 general permit.

## 6.4. Ramp SW and MLK Mainline

Negligible concentrations of oil and grease and very low TPH-DRO concentrations were detected in the soil and groundwater samples collected from the boreholes along proposed Ramp WM along Columbus Avenue and the CSX Vacant Lot. The detections may be due to run-off from the adjacent Columbus Avenue or Murro Chemical. All soil samples meet the VDEQ criteria for clean fill. The soils are classified as Urban Soil – Category 6.

Near detection limits concentrations of TOX and some metals were also found in the groundwater samples. The groundwater metal concentrations reported are probably due to dissolution of metals from the suspended sediment and are not-representative of in-situ dissolved metal concentrations or the concentrations of metal in groundwater that may enter a construction excavation in this area.

## 6.5. Ramp WM and SWM Ponds 19 and 20

No significant soil or groundwater contamination was found in any of the samples collected from the borings completed along Ramp WM and within the proposed locations of SWM Ponds 19 and 20. Except for a small area of petroleum impacted soils that apparently resulted from a surface spill of diesel fuel or hydraulic oil on Parcel 015 (SWM Pond 19), all soils represented by these samples are considered Category 6-Urban Soil.

The recent August 24, 2012 fire at the facility may have released additional contaminants to the subsurface or the adjoining Parcel 15.

## 6.6. CSX and Vulcan Properties

Petroleum impacted soils above the clean fill criteria were found at all borings except one. The level of TPH and PAH impacts within the CSX property are highly variable, and appropriate environmental monitoring and worker protection should be employed for all construction activities on CSX property. Excess petroleum impacted soils that cannot be placed back into the excavation from which they were derived or on soils with similar concentrations, must be disposed of at a landfill or treatment facility permitted to accept soils with the TPH concentrations found.

The groundwater data (Table 17) indicate very low concentrations of petroleum constituents, VOCs, and SVOCs. All metal detections were below Virginia Water Quality Standards. The concentrations of petroleum constituents were all well below the effluents limits for the VAG 083 general permit.

## 6.7. Old Dominion Demolition and SWM Pond 24

The soils laboratory data indicate petroleum impacted soils above the clean fill criteria at several borings within and nearby proposed SWM Pond 24. Petroleum impacted soils include a small area on Parcel 025 apparently from a surface spill, an area on Old Dominion Demolition near the southwest

corner of proposed SWM Pond 24, and an area in the northeast corner of proposed SWM Pond 24 that may be related to a former leaking UST on the adjacent property Parcel P459.

The extent of petroleum contamination cannot be fully defined as petroleum constituents may have migrated along subsurface utility trenches or other preferential migration pathways. Petroleum contaminated soil may be encountered during bridge pier construction, installation of any subsurface conveyance structures to or from SWM Pond 24, utility relocations, and any other ground disturbance in this area. Excess petroleum impacted soils that cannot be placed back into the excavation from which they were derived or on soils with similar concentrations, must be disposed of at a landfill or treatment facility permitted to accept soils with the TPH concentrations found.

The groundwater laboratory data indicate very low concentrations of petroleum constituents at all borings. The concentrations of petroleum constituents were all well below the effluents limits for the VAG 083 general permit. It also noted that the environmental records for Old Dominion Demolition (EE, 2012) list one UST as permanently out of use. The status and location of this UST is not known and may still be present on site.

## 6.8. South Harbor Drive and SWM Pond 25

The soil laboratory data indicate petroleum impacted soils above the clean fill criteria are limited to the northeast corner of proposed SWM Pond 25 and Parcel 034. All other soils sampled are classified as Category 6-Urban Soils. The extent of petroleum contamination cannot be fully defined as petroleum constituents may have migrated along subsurface utility trenches or other preferential migration pathways. Petroleum contaminated soil may be encountered during bridge pier construction, installation of any subsurface conveyance structures to or from SWM Pond 25, utility relocations, and any other ground disturbance in this area. Excess petroleum impacted soils that cannot be placed back into the excavation from which they were derived or on soils with similar concentrations, must be disposed of at a landfill or treatment facility permitted to accept soils with the TPH concentrations found.

The groundwater laboratory data indicate low concentrations of petroleum constituents at all borings. The concentrations of petroleum constituents were all well below the effluents limits for the VAG 083 general permit.

The detections of petroleum constituents are likely resultant from the historical use of the Parcels 31-34 by the Bill Lewis Chevrolet dealer, and the former use of multiple USTs on the parcels. The environmental records for Bill Lewis Chevrolet (EEE, 2012a) indicate three USTs closed in place on Parcel 32. The exact locations of the USTs are unknown but believed to be under the floor slab of the existing building.

## 6.9. North Harbor Drive and SWM Pond 30

No contaminated soil or groundwater was found in the samples collected from the boreholes completed along North Harbor Drive and proposed SWM Pond 30. The soils represented by these samples are classified as Urban Soils.

Groundwater samples from the borings along Harbor Drive were not collected as no dewatering in this area is expected during construction and no petroleum contamination was observed in the field. The groundwater laboratory results from the boreholes at proposed SWM Pond 30 indicate very low levels of TPH-DRO, oil and grease, and Total Organic Halides (TOX). These detections may be due to run-off from the adjacent highways or the railroad to the west.

# 7. REFERENCES

ASTM 1999b, D 6282 Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations. In Annual Book of ASTM Standards Vol. 04.09 Soil and Rock (II).

ASTM 1999c, D6001 Standard Guide for Direct-Push Water Sampling for Geoenvironmental Investigations. In Annual Book of ASTM Standards Vol. 04.09 Soil and Rock (II).

ASTM D5434 - 12 Standard Guide for Field Logging of Subsurface Explorations of Soil and Rock

ASTM D6282 - 98(2005) Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations

CEC, 2012, Waste Characterization Plan, Midtown Tunnel/Downtown Tunnel/MLK Freeway Project, Conley Environmental Corporation, June 2012

EEE, 2010, FINAL Preliminary Hazardous Materials Action Plan, D0402010111, Midtown Tunnel – Martin Luther King Freeway Extension, December 20, 2010.

EEE, 2011a, Phase II ESA for VDOT's Turnpike Road, Prepared for Virginia Department of Transportation Hazardous Materials Division, November, 2011.

EEE, 2011b, Hazardous Materials Management Plan, D0402030100-Rev1, Midtown Tunnel/Downtown Tunnel/Martin Luther King Freeway Extension, April 27, 2011.

EEE, 2012a, Corridor Level Environmental Records Report, Downtown Tunnel / Midtown Tunnel / MLK Expressway Extension Project (D0402030110), September 18, 2012.

EEE, 2012b, Phase I Environmental Site Assessment HERC/BCSC Property, Downtown Tunnel / Midtown Tunnel / MLK Expressway Extension Project (D0402030200), September 17, 2012.

EEE, 2012c, Phase I Environmental Site Assessment Murro Chemical Property, Downtown Tunnel / Midtown Tunnel / MLK Expressway Extension Project (D0402030200), September 17, 2012.

ERC, 2011, Exhibit Q to the Comprehensive Agreement, Known Pre-Existing Hazardous Substances Report

ERM, 2011, Draft Report of Findings for the Environmental Assessment of the Midtown Tunnel/Downtown Tunnel/MLK Extension Project and Associated Facilities in Norfolk and Portsmouth, Virginia – Project Elizabeth, ERM, June 8, 2011

Marshall Miller & Associates, 1997, Martin Luther King Extension Subsurface Investigation, Portsmouth, Virginia, Marshall Miller & Associates, September 19, 1997.

Marshall Miller & Associates, 1998a, Boiler Specialty Cleaning Operation, Martin Luther King Extension Project, Marshall Miller & Associates, April 9, 1998.

Marshall Miller & Associates, 1998b, Murro Chemical Subsurface Investigation, Marshall Miller & Associates, May 28, 1998.

Marshall Miller & Associates, 1998c, Geophysical Survey, Boiler Specialty Cleaning Operation, Portsmouth, Virginia, Marshall Miller & Associates, June 24, 1998.

Marshall Miller & Associates, 2008, Phase II Environmental Site Assessment, Midtown Tunnel Shoreline Connections, Portsmouth and Norfolk, VA, Oct 2008, Marshall Miller & Associates.

Marshall Miller & Associates, 2009, Phase II Environmental Site Assessment, Proposed Martin Luther King Jr. Freeway Extension, Portsmouth, VA, January 30, 2009, Marshall Miller & Associates.

Marshall Miller & Associates, 2010, Phase II Environmental Site Assessment Addendum, Proposed Martin Luther King Jr. Freeway Extension CXST Properties, Marshall Miller & Associates, June 17, 2010.

Scheyer, J.M., and K.W. Hipple. 2005. Urban Soil Primer. United States Department of Agriculture, Natural Resources Conservation Service, National Soil Survey Center, Lincoln, Nebraska (http://soils.usda.gov/use).

# TABLES

**Table 1: Properties within MLK Corridor ROW**

| Parcel No. | Property Address | Owner | Current Land Use | Tax ID | Figure(s) |
|---|---|---|---|---|---|
| 001 | 3409 Trexler Ave. | R. & P. Boone (Eliminated from ROW) | Residential | 02070050 | 12 |
| 002 | 3405 Trexler Ave. | W.R. Chambers | Residential | 02070040 | 12 |
| 003 | 3401 Trexler Ave. | I.M. Howard-Lynch | Residential | 02070030 | 12 |
| 004 | ROW | City of Portsmouth | | 0250011 | 11 – 13 |
| 005 | Frederick Blvd. | City of Portsmouth | Vehicle Center | 01650010 | 15 |
| 006 | Rail line east of 005 | NPBL | Rail Line | N/A | 15 |
| 007 | Between parcels 008 and 068 | City of Portsmouth | Wooded; water line easement | N/A | 16 – 17 |
| 008 | 1700 Columbus Ave. | Commonwealth of Virginia | Wooded/open field | 01670030 | 16 – 19 |
| 009 | 1729 Columbus Ave. | PRHA | Maintenance facility | 01250011 | 17, 19 |
| 010 | Columbus Ave. | City of Portsmouth | Mt Olive Cemetery | 02090020 | 19, 21 |
| 011 | 1513 Columbus Ave. | J.E. & S.D. Bazemore | Vacant residential lot | N/A | 19 – 21 |
| 012 | 800 Constitution Ave. & 1498 Columbus Ave | CSX Transportation | Active rail yard & overgrown former storage yard | N/A | 20, 25, 26 |
| 013 | 1420 Columbus Ave. | Columbus Ave LLC | Abandoned bilge/tank cleaning and processing facility | 02080021 | 20, 22, 25 |
| 014 | | OMITTED | | | |
| 015 | 1400 Columbus Ave. | Tidewater Radio Show, Inc. | Radio Tower | 01230010 | 22 |
| 016 | 1411 Columbus Ave. | C.E. & E.M. Rountree | Residential | 02080180 | 21 – 22 |
| 017 | 1409 Columbus Ave. | Associated Contracting Services, Inc. | Vacant lot | 02080190 | 21 – 22 |
| 018 | 1407 Columbus Ave. | S.T. Williams | Residential | 02080200 | 22 |
| 019 | 1405 Columbus Ave. | L.M. & E.E. Burton | Residential | 02080210 | 22 |
| 020 | 1403 Columbus Ave. | B. Parker | Residential | 02080220 | 22 |
| 021 | Bedford St. /1401 Columbus Ave. | H.W. Brown | Residential | 02080230 | 22 |
| 022 | 1413 Des Moines Ave. | D&B Properties, Inc. (OMITTED) | Residential | 01010060 | 24 |
| 023 | 1324 Lansing Ave. | A.S. Dietrich ( OMITTED) | Residential | 01010180 | 24 |
| 024 | 2125 Columbia St. | Columbia Properties LLC | Old Dominion Demolition | 01770320 | 26 – 27 |
| 025 | 2225 Turnpike Road | VDOT recently acquired parcel for Turnpike Road Project | A-A Auto | 01770310 | 26 – 27 |

| | | | | | |
|---|---|---|---|---|---|
| 026 | 2307 Turnpike Rd. | Columbia Properties LLC | Old Dominion Demolition | 01770311 | 26 – 27 |
| 027 | 2130 Columbia St. | E.P. Ricks, Sr. | Storage/Junk Yard | 01770180 | 27 |
| 028 | 2126 Columbia St. | E.P. Ricks, Sr. | | 01770170 | 27 |
| 029 | 2122 Columbia St. | E.P. Ricks, Sr. | | 01770160 | 27 |
| 030 | 2304 Turnpike Rd. | Portsmouth Machine and Welding Corp. | Machine & Welding Operation | 01770020 | 27 |
| 031 | 726 Harbor Dr. | A & A Rental LLC | A&A Sheet Metal and Breakdown Sound & Jones Uniform Shop | 01730150 | 27 |
| 032 | 2220 Turnpike Rd. | Britt Holding LLC | Shelving/Shower Door Business & Rogers Electrical | 01710600 | 27 |
| 033 | 700 Harbor Dr. | A & A Rental LLC | Asphalt parking lot | 01730151 | 27 |
| 034 | 2115 County St. | Britt Holding LLC | Storage Lot | 01710610 | 27 |
| 035 | 2106 County St. | Bethel Temple Church Trustees | Bethel Temple Church | 01710580 | 27 |
| 036 | 610 Harbor Dr. | Lawrence Landscaping & Maintenance | Storage Lot | 01710500 | 27 |
| 037 | 600 Harbor Dr. | Lawrence Landscaping & Maintenance | Storage Lot | 01710490 | 27 – 28 |
| 038 | 2209 King St. | Lawrence Landscaping & Maintenance | Residential | 01710480 | 27 – 28 |
| 039 | 2128 King St. | A.D. White, Jr. | Residential | 01710300 | 28 |
| 040 | 2130 King St. | L.D. & R.P. Rose | Residential | 01710310 | 28 |
| 041 | 2132 King St. | W. & M.A. Johnson | Residential | 01710320 | 28 |
| 042 | 2200 King St. | Commonwealth of Virginia | Vacant Lot | 01710340 | 28 |
| 043 | 2202 King St. | D.W. Ashley | Residential | 01710350 | 28 |
| 044 | 2204 King St. | Taratex Development Corp. | Residential | 01710360 | 28 |
| 045 | 2121 High St. | J.W. & A. Tasby | Warehouse | 01710140 | 28 |
| 046 | 2123 High St. | J.W. & A. Tasby | Vacant Lot | 01710130 | 28 |
| 047 | 2201 High St. | E.E. Smithhart & A.L. Fary | Warehouse | 01710120 | 28 |
| 048 | 2203 High St. | E.E. Smithhart & A.L. Fary | Vacant Lot | 01710101 | 28 |
| 049 | 2209 High St. | J. McGlynn | Residential | 01710100 | 28 |
| 050 | 2211 High St. | A.Williams & M.P. Cross | Warehouse | 01710090 | 28 |
| 051 | 2116 High St. | Souls Paradise Church of God In Christ | Church | 00701050 | 28 |
| 052 | 2118 High St. | Souls Paradise Church of God In Christ | Vacant Lot | 00701040 | 28 |
| 053 | 2120 High St. | Souls Paradise Church of God In Christ | Vacant Lot | 00701030 | 28 |
| 054 | 2124 High St. | Souls Paradise Church of God In Christ | Vacant Lot | 00701020 | 28 |

| | | | | | |
|---|---|---|---|---|---|
| 055 | 2200 High St. | Portsmouth LLC | BP Service Station | 00760760 | 28 |
| 056 | 2127 Queen St. | Souls Paradise Church of God In Christ | Vacant Lot | 00701010 | 28 |
| 057 | 2205 Queen St. | Gloria Harmon Life Estate | Residential | 00760720 | 28 |
| 058 | 449 Martin Luther King Expy | H. Abdus-Salaam | Commercial | 00700800 | 28 – 29 |
| 059 | 2206 Queen St. | HR Buyrite LLC | Residential | 00760560 | 28 – 29 |
| 060 | 2208 Queen St. | Monique D. Anthony | Residential | 00760570 | 28 – 29 |
| 061 | 438 Macarthur Ave. | D&B Properties, Inc. | Residential | 00760430 | 29 |
| 062 | 437 Macarthur Ave. | R.L. & L.D. Dail | Residential | 00760480 | 29 |
| 063 | 435 Macarthur Ave. | C.C., M.Y., & K.L. Canty | Residential | 00760490 | 29 |
| 064 | | OMITTED | | | |
| 065 | 434 Macarthur Ave. | City of Portsmouth Virginia | Vacant Lot | 00760420 | 29 |
| 066 | 430 Macarthur Ave. | City of Portsmouth Virginia | Vacant Lot | 00760410 | 29 |
| 067 | 2125 Queen St. | MLV 1 Enterprises Inc (OMITTED) | Residential | 00701000 | 28 |
| 068 | 1842 Columbus Ave. /1900 Columbus Ave./2300 Columbus Ave./300 Dale Dr. | PRHA | PRHA Residential Housing & Open Fields | 01670040 | 15 – 17 |
| 069 | 1415 Columbus Ave. | R.N. Toxey | Residential | 02080160 | 21 |
| 070 | 1413 Columbus Ave. | H.S. Humphrey, Jr. | Residential | 02080170 | 21 – 22 |
| 071 | 1322 Lansing Ave. | A.E. Whitehurst (OMITTED) | Residential | 01010170 | 24 |
| 072 | 2226 Cassell Ave. /2231 County St. /2308 Turnpike Rd. /2320 Turnpike Rd. | Land O Sun II, LLC | Commercial | 01770040 | 27 |
| 073 | 2216 County St. | L&M Holding Company LLC | Office Building | 01730080 | 27 |
| 074 | 1305 Columbus Ave. | E. Milton III | Residential | 02080240 | 22 – 23 |
| 075 | 1303 Columbus Ave. | H.W. Brown | Residential | 02080250 | 23 |
| 076 | 1301 Columbus Ave. | J.L. & R.J. Johnson | Residential | 02080260 | 23 |
| 077 | Columbus Ave | City of Portsmouth | Columbus Ave | NA | 19 |
| 078 | Bedford Ave | City of Portsmouth | Bedford Ave | NA | 22 |
| 079 | Harbor Drive | City of Portsmouth | Harbor Drive | NA | 27 – 28 |
| 080 | 2115 High Street | G. Haley | Commercial | 01710160 | 28 |
| 081 | 2200 Frederick Blvd | 2200 Frederick Blvd, LLC | Used Car Sales-Champion Motors | 02050760 | 13 |
| 082 | Between parcels 015 and 012 | Edmund Perry | Wooded/soil/debris piles | NA | 22 |

| | | | | | |
|---|---|---|---|---|---|
| 083 | In back of 1403 Columbus Ave | V.B. Garris | Vacant lot | 02080300 | 22 |
| 084 | Bedford St. /1401 Columbus Ave. | H.W. Brown | Vacant lot | 02080290 | 22 |
| Pond 8 | South of I-264 | Commonwealth of Virginia | Open field | NA | 13 |
| Pond 30 | Rte. 58 (SB) Ramp to London Blvd (EB) | Commonwealth of Virginia | Open field | NA | 29 – 30 |

**Table 2: Environmental Records Findings - MLK Corridor ROW Properties**

| Parcel No. | Property Address | Owner/Operator/Land Use | EDR Reported Findings |
|---|---|---|---|
| 005 | 2001- 2007 Frederick Boulevard | City of Portsmouth/Vehicle Center | RCRA-SQG, FINDS at 2003 & 2007 Frederick Blvd LUST/LTANKS (Closed), FINANCIAL ASSURANCE, & UST at 2003 Frederick Blvd |
| 009 | PRHA 1729 Columbus Avenue | PRHA | LUST/LTANKS (Closed), UST (3-Removed) as Central Maintenance |
| 012 | 1440-1498 Columbus Avenue; 2500 South Avenue; 800 Constitution Avenue | CSX Transportation | RCRA-LQG/CESQG/Non-Gen; UST, AST and VA FINANCIAL ASSURANCE (Branscome, Inc.) |
| 013 | 1420 Columbus Avenue | Columbus Ave, LLC/ HERC/BCSC/multiple other owners and operators | RCRA-LQG/SQG, FINDS as HERC/BCSC, AST as Environmental Cleaning Co. |
| 024 | 2125 Columbia Street | Columbia Properties LLC/ Old Dominion Demolition Scrap Yard | UST (1 Permanently Out of Use). Tank registered under Diversified Systems. Tank status is unknown. Tank was not found during site reconnaissance. |
| 026 | 2307 Turnpike Road | Columbia Properties LLC/ Old Dominion Demolition Scrap Yard | |
| 031 | 726 Harbor Drive | A & A Rental, LLC/Bill Lewis Chevrolet | RCRA-NonGen, FINDS (as Phillyship of Norfolk) SPILLS (as Bill Lewis Chevrolet) |
| 032 | 2220 Turnpike Road | Britt Holding, LLC/Bill Lewis Chevrolet | RCRA-NonGen, FINDS, LUST/LTANKS (Closed), UST (2-Perm out of Use, 3-Closed in Ground) as Bill Lewis Chevrolet |

**Table 2: Environmental Records Findings - MLK Corridor ROW Properties**

| Parcel No. | Property Address | Owner/Operator/Land Use | EDR Reported Findings |
|---|---|---|---|
| 035 | 2106 County Street | Bethel Temple Church (BTC) Trustees/Ollie Wilkens | LUST/LTANKS (Closed); LUST located on SE portion of parcel - formerly owned by Ollie Wilkins - former address: 620 Constitution Avenue (parcels combined in 1987) now owned by BTC |
| 055 | 2200 High Street | Portsmouth I LLC/BP Service Station/Amoco | CERC-NFRAP, RCRA-SQG, FINDS, VA SPILLS as Amoco UST (3 Permanently out of use, 1 Closed in ground, 4 Currently in use), LUST (Closed), VA FINANCIAL ASSURANCE as BP |
| 068 | 1842 Columbus Avenue<br>1900 Columbus Avenue<br>2300 Columbus Avenue<br>300 Dale Drive | PRHA | RCRA-CESQG, FINDS at 300 Dale Drive<br>RCRA-CESQG, FINDS at 1842-2210 Columbus Ave |
| 072 | Pet Dairy<br>2226 Cassell Avenue<br>2231 County Street<br>2308 Turnpike Road<br>2320 Turnpike Road | LAND O SUN II, LLC | RCRA-CESQG, FINDS, LUST/LTANKS (Closed), UST (2 Closed in ground, 5 Removed) at 2320 Turnpike Rd |

**Table 3: Soil Management Matrix**

| Analysis | | Results | Classification | Soil Destination |
|---|---|---|---|---|
| Category 1 | TCLP | Exceed characteristic waste criteria (9VAC20-60-261 and 40 CFR Part 261) | Hazardous Waste | Must go to a permitted hazardous waste treatment or disposal facility in accordance with (IAW) VHWMR |
| Category 2 | TCLP | <regulatory limits | Special Solid Waste | Soils with TPH levels greater than 500 mg/kg may go to Subtitle D Landfill or treatment facility provided the facility is permitted to accept soils with TPH levels greater than 500 mg/kg IAW VSWMR |
| | BTEX | >10 mg/kg | | |
| | TPH | >500 mg/kg | | |
| | TOX | >100 mg/kg | | Soils with TOX concentrations greater than 100 mg/kg may not be disposed until separate approval from DEQ is granted. |
| Category 3 | PCBs | >50 mg/kg (ppm) | TSCA Waste (40 CFR 761.3) | Solid wastes, residues, or soils containing 50 ppm (parts per million) or more of PCBs cannot be disposed in sanitary landfills except as specifically authorized by the landfill permit or by the VDEQ as allowed under the provisions of 9VAC20-81-630. |
| Category 4 | TCLP | <regulatory limits | Non-Hazardous Solid Waste | Subtitle D landfill or permitted treatment facility IAW VSWMR |
| | BTEX | <10 mg/kg | | |
| | TPH | 50-500 mg/kg | | |
| | TOX | <100 mg/kg | | |
| Category 5 | TCLP | <regulatory limits | Clean Fill | Petroleum impacted soil acceptable for re-use as fill subject to restrictions in 9VAC20-81-660 |
| | BTEX | <10 mg/kg | | |
| | TPH | <50 mg/kg | | |
| Category 6 | TCLP | <regulatory limits | Urban Soils | Disturbed soils that may have *de minimis* concentrations of some contaminants above expected background or natural soils where there is no definitive source of the contaminants found. |
| | BTEX | <10 mg/kg | | |
| | TPH | <50 mg/kg | | |

**Table 4: Natural Metal Concentrations in Natural Soils and Groundwater**

| Metals | Soils (ppm) | | | | Groundwater (ug/L) | |
|---|---|---|---|---|---|---|
| | USGS (1984) Eastern United States[1] | | U.S. EPA (2003) Metal Concentrations in Virginia[2] | Shacklette and Boerngen (1984)[2] | U.S. EPA (2002)[2,3] | Newcomb and Rimstidt, (2002)[2] |
| | Range | Mean | Mean | Mean | Mean | Mean |
| **Arsenic (As)** | <0.1 to 73 | 7.4 | 5.1 | 7.2 | 8 | 13.9 |
| **Barium (Ba)** | 10 to 1,500 | 420 | 436 | 580 | 140 | 77 |
| **Cadmium (Cd)** | - | - | - | 0.35 | 1 | - |
| **Chromium (Cr)** | 1 to 1,000 | 52 | 54.3 | 54 | 7 | 4.4 |
| **Lead (Pb)** | <10 to 300 | 17 | 36 | 19 | - | 2.6 |
| **Mercury (Hg)** | 0.01 to 3.4 | 0.12 | - | 0.09 | 2 | - |
| **Selenium (Se)** | <0.1 to 3.9 | 0.45 | 0.4 | 0.39 | 5 | 2.5 |
| **Silver (Ag)** | - | - | - | 0.05 | - | 0.5 |

[1] USGS, 1984, Elemental Concentrations in Soil and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270

[2] From Langmuir, Do, Chrostowski, P., Vignealt, B. and Chaney, R., 2004, Issue Paper on Environmental Chemistry of Metals, submitted to U.S. Environmental Protection Agency

[3] Based on STORET dissolved concentrations

**Table 5: VPDES General Permit VAG 083 Effluent Limits***

| EFFLUENT CHARACTERISTICS | DISCHARGE LIMITATIONS | | MONITORING REQUIREMENTS | |
|---|---|---|---|---|
| | Instantaneous Minimum | Instantaneous Maximum | Frequency | Sample Type |
| Flow (MGD) | NA | NL | 1/Month | Estimate |
| Benzene (µg/l)[1] | NA | 50 | 1/Month | Grab |
| Toluene (µg/l)[1] | NA | 175 | 1/Month | Grab |
| Ethylbenzene (µg/l)[1] | NA | 320 | 1/Month | Grab |
| Total Xylenes (µg/l)[1] | NA | 33 | 1/Month | Grab |
| MTBE (methyl tert-butyl ether) (µg/l)[1] | NA | 1,840.00 | 1/Month | Grab |
| pH (standard units)[2] | 6 | 9 | 1/Month | Grab |
| Total Recoverable Lead (µg/l)[3] | NA | $e^{(1.273(\ln \text{hardness})) -3.259}$ | 1/Month | Grab |
| Hardness (mg/l $CaCO_3$)[3] | NL | NL | 1/Month | Grab |
| Naphthalene (µg/l)[4] | NA | 10 | 1/Month | Grab |
| Total Petroleum Hydrocarbons (mg/l)[5] | NA | 15 | 1/Month | Grab |
| cis-1,2 Dichloroethylene (µg/l)[6] | NA | 70 | 1/Month | Grab |
| Tetrachloroethylene (µg/l)[6] | NA | 5 | 1/Month | Grab |
| Trichloroethylene (µg/l)[6] | NA | 5 | 1/Month | Grab |

[1] Benzene, Toluene, Ethylbenzene, Total Xylenes and MTBE shall be analyzed according to EPA Method 602 (40 CFR 136, 1996) or EPA SW 846 Method 8021B (1996).

[2] pH may be determined in the field using EPA Method 150.1 (EPA 600/4-87-020) or EPA SW 846 Method 9040B.

[3] Monitoring for this parameter is required only when contamination results from leaded fuel. Lead analysis shall be according to EPA Method 239.2 (40 CFR 136, 1996) or EPA SW 846 Method 7421 (1986). There are no limits for hardness. The minimum hardness concentration that will be used to determine the lead effluent limit is 25 mg/l.

[4] Naphthalene shall be analyzed by a current and appropriate EPA Wastewater Method from 40 CFR Part 136 (2007) or a current appropriate EPA SW 846 Method.

[5] TPH shall be analyzed using EPA SW 846 Method 8015C for diesel range organics, or by EPA SW 846 Method 8270D. If method 8270D is used, the lab must report the total diesel range organics and polynuclear aromatic hydrocarbons.

[6] This constituent shall be analyzed by a current and appropriate gas chromatograph/mass spectroscopy method from EPA SW 846 or the EPA Wastewater Method series from 40 CFR Part 136.

*Effluent limits taken from applicable tables in General Permit No. VAG83. General Permit No. VAG83 expires February 25, 2013 and will be renewed thereafter.

**Table 6: SWM Pond 8 Soil Detections**

| Pond 8 Parcels: VDOT | | Boring / Groundwater Sampling Points | |
|---|---|---|---|
| **Boring ID:** | | **3E-Pond 8-69W** | **3E-Pond 8-70W** |
| **Sample ID:** | | **69W @ 2-4'** | **70W @ 2-4'** |
| **Analytical Constituent** | **Units** | **Results** | |
| Oil and Grease | mg/Kg | 73 J B | 260 B |
| TPH-DRO | mg/Kg | 2.5 J | 6.8 |
| **Soil Category:** | | Category 6 | Category 6 |

**Table 7: SWM Pond 8 Groundwater Detections**

| Pond 8 Parcels: VDOT | | Boring / Groundwater Sampling Points | |
|---|---|---|---|
| **Boring ID:** | | **3E-Pond 8-69W** | **3E-Pond 8-70W** |
| **Sample ID:** | | **69W** | **70W** |
| **Analytical Constituent** | **Units** | **Results** | |
| Oil and Grease | mg/L | 9.2 J | ND |
| TPH-DRO | mg/L | 0.2 | 0.16 |
| EOX | mg/L | 0.094 | 0.048 |

**NOTES:**

= Analysis not performed on sample

[1] 40CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 8: I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road**
**Soil Detections**

| PVMF & NPBL Parcels: 005 & 006 | | Boring / Groundwater Sampling Points | | |
|---|---|---|---|---|
| **Boring ID:** | | **3E-005-01** | **3E-006-02W** | **3E-006-02W** |
| **Sample ID:** | | **01 @ 2-4'** | **02W @ 1-3'** | **02W @ 1.5'-2.0'** |
| **Analytical Constituent** | **Units** | **Results **** | | |
| Oil and Grease | mg/Kg | 290 B | 86 JB | |
| TPH-DRO | mg/Kg | 5.5 | ND | |
| **Semi-Volatile Constituents (Method 8270C)** | | | | |
| Naphthalene | ug/Kg | | 67 J | |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | |
| Arsenic | mg/Kg | | **0.65 J** | |
| Barium | mg/Kg | | 20 J | |
| Cadmium | mg/Kg | | 0.12 J | |
| Chromium | mg/Kg | | **9** | |
| Lead | mg/Kg | | 8.8 | |
| Mercury | mg/Kg | | 0.047 | |
| Selenium | mg/Kg | | 0.78 B | |
| **WASTE CHARACTERISTICS [1]** | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | |
| Arsenic | mg/L | | | 0.003 J |
| Barium | mg/L | | | 0.12 JB |
| Cadmium | mg/L | | | 0.00088 JB |
| Chromium | mg/L | | | 0.0022 J |
| Lead | mg/L | | | 0.012 J |
| Mercury | mg/L | | | ND |
| Selenium | mg/L | | | 0.012 JB |
| Silver | mg/L | | | ND |
| **Soil Category:** | | Category 6 | Category 6 | Category 6 |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 9 I-264 Bridge Over Norfolk & Portsmouth Belt Line Rail Road**
**Groundwater Detections**

| PVMF & NPBL<br><br>Parcels: 005, 006 | | Boring / Groundwater Sampling Point |
|---|---|---|
| **Boring ID:** | | **3E-006-02W** |
| **Sample ID:** | | **02W** |
| **Analytical Constituent** | **Units** | **Results** |
| TPH-DRO | mg/L | 0.081 J |
| **Volatile Organic Constituents (Method 8260)** | | |
| 1,2,4-Trichlorobenzene | ug/L | 1.2 J B * |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | |
| Arsenic | ug/L | 15 |
| Barium | ug/L | 290 |
| Cadmium | ug/L | 0.91 J |
| Chromium | ug/L | 160 |
| Lead | ug/L | 99 |
| Mercury | ug/L | 0.49 |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 10 Portsmouth Redevelopment and Housing Authority and SWM Pond 14 Soil Detections**

| PRHA and Pond 14 Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Points | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-007-03** | **3E-008-04W** | **3E-007-05** | **3E-008-06W** | **3E-009-07W** | **3E-008-08W** | **3E-008-09W** | **3E-vdot-10W** | **3E-vdot-10W** |
| **Sample ID:** | | **03 @ 2-4'** | **4W @ 2-4'** | **05 @ 2-4'** | **06W @ 5-7'** | **07W @ 1-3'** | **08W @ 3-5'** | **09W @ 2-4'** | **10W @ 2-4'** | **10WD @ 2-4'** |
| **Analytical Constituent** | **Units** | **Results** | | | | | | | | |
| Oil and Grease (HEM) | mg/Kg | 130 J B | 86 J B | 120 J B | 590 B | 1300 B | 340 B | 100 J B | 130 J B | 130 J B |
| TPH-DRO | mg/Kg | 4.2 | 2.8 J | 4.5 | 23 | **190** | 21 | 2.8 J | 3.1 J | ND |
| TPH-GRO | mg/Kg | ND | ND | ND | 0.32 | **100** | ND | ND | ND | ND |
| Benzene | ug/Kg | ND H | ND | ND H | ND | 640 J | ND | ND | ND | ND |
| Toluene | ug/Kg | ND H | ND | ND H | ND | 6800 | ND | ND | ND | ND |
| Ethylbenzene | ug/Kg | ND H | ND | ND H | ND | 8200 | ND | ND | ND | ND |
| Xylenes (total) | ug/Kg | ND H | ND | ND H | ND | 44000 | ND | ND | ND | ND |
| Total BTEX | mg/kg | ND H | ND | ND H | ND | **59.64** | ND | ND | ND | ND |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | |
| Benzene | ug/Kg | ND H | ND | ND H | ND | 640 J | ND | ND | ND | ND |
| Ethylbenzene | ug/Kg | ND H | ND | ND H | ND | 8200 | ND | ND | ND | ND |
| Isopropylbenzene | ug/Kg | | | | | 660 J | | | | |
| Xylenes (total) | ug/Kg | | ND | | ND | 44000 | | | | |
| Methylcyclohexane | ug/Kg | | | | | 370 J | | | | |
| Toluene | ug/Kg | ND H | ND | ND H | ND | 6800 | ND | ND | ND | ND |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | |
| 2-Methylnaphthalene | ug/Kg | | | | | 1000 | | | | |
| Naphthalene | ug/Kg | | | | | 1700 | | | | |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | |
| Arsenic | mg/Kg | | | | **5.6** | **2.2** | | | | |
| Barium | mg/Kg | | | | 16 J | 39 | | | | |
| Cadmium | mg/Kg | | | | ND | 0.17 J | | | | |
| Chromium | mg/Kg | | | | **5.5** | **14** | | | | |
| Lead | mg/Kg | | | | 11 | 12 | | | | |
| Mercury | mg/Kg | | | | ND | 0.062 | | | | |
| Selenium | mg/Kg | | | | ND | 0.36 J | | | | |
| **Pesticides and Herbicides (Method 8151)** | | | | | | | | | | |
| 4,4'-DDD | ug/Kg | | | | | 1.8 J p | | | | |
| 4,4'-DDT | ug/Kg | | | | | 87 | | | | |
| Dieldrin | ug/Kg | | | | | 20 | | | | |
| Endosulfan II | ug/Kg | | | | | 10 J p | | | | |
| Endosulfan sulfate | ug/Kg | | | | | 26 p | | | | |
| Endrin | ug/Kg | | | | | 4.2 J p | | | | |
| Endrin ketone | ug/Kg | | | | | 18 p | | | | |
| Methoxychlor | ug/Kg | | | | | 26 p | | | | |
| **PCBs (Method 8082)** | | | | | | | | | | |
| Aroclor-1016 | ug/Kg | ND H | ND H | ND H | 1130 | ND | ND H | ND H | ND H | |
| Aroclor-1260 | ug/Kg | ND H | ND H | ND H | ND | 590 | ND H | ND H | ND H | |
| Total PCBs | | ND | ND | ND | 1130 | 590 | ND | ND | ND | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | |
| Arsenic | mg/L | | | | 0.0076 J | | | | | |
| Barium | mg/L | | | | 0.2 B | | | | | |
| Cadmium | mg/L | | | | 0.00073 J | | | | | |
| Chromium | mg/L | | | | 0.0028 J | | | | | |
| Lead | mg/L | | | | 4.1 | | | | | |
| Selenium | mg/L | | | | 0.0070 JB | | | | | |
| **General Chemistry** | | | | | | | | | | |
| Sulfide | mg/Kg | | | | 24 J | | | | | |
| pH | S.U. | | | | 6.25 H | | | | | |
| Ignitability (flashpoint) | degrees F | | | | >140 | | | | | |
| **Soil Category:** | | Category 6 | Category 6 | Category 6 | Category 5 | Category 2 | Category 6 | Category 6 | Category 6 | Category 6 |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 11 Portsmouth Redevelopment and Housing Authority and SWM Pond 14 Groundwater Detections**

| PRHA and Pond 14 Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Points | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-008-04W | 3E-008-06W | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-vdot-10W | 3E-vdot-10W |
| Sample ID: | | 04W | 06W | 06WD | 07W | 08W | 09W | 10W | 10WD |
| Analytical Constituent | Units | Results | | | | | | | |
| Oil and Grease | mg/L | 19 J B | 4.6 J | 2.2 J | 2.4 J | 1.5 J | 1.6 J | 3.1 J | 3.8 J |
| TPH-DRO | mg/L | 0.19 | 0.65 | 0.76 | 0.18 | 0.39 | 0.21 | .088 J | .093 J |
| TPH-GRO | mg/L | ND | ND | ND | .039 J | ND | ND | ND | ND |
| Toluene | ug/L | ND | ND | ND | 1.3 J | ND | ND | ND | ND |
| Ethylbenzene | ug/L | ND | ND | ND | 1.3 J | ND | ND | ND | ND |
| Xylenes (Total) | ug/L | ND | ND | ND | 6.4 J | ND | ND | ND | ND |
| o-Xylene | ug/L | | ND | ND | 1.6 J | | | | |
| m&p-Xylene | ug/L | | ND | ND | 4.8 J | | | | |
| TOX | mg/L | 0.1 | | | | 0.06 | 0.078 | 0.021 | 0.027 |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | |
| Ethylbenzene | ug/L | ND | ND | ND | 1.3 J | ND | ND | ND | ND |
| Xylenes (Total) | ug/L | ND | ND | ND | 6.4 J | ND | ND | ND | ND |
| o-Xylene | ug/L | ND | ND | ND | 1.6 J | | | | |
| m&p Xylenes | ug/L | ND | ND | ND | 4.8 J | | | | |
| Toluene | ug/L | ND | ND | ND | 1.3 J | ND | ND | ND | ND |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | |
| Arsenic | ug/L | | 140 | 70 | 87 | | | | |
| Barium | ug/L | | 970 | 510 | 190 J | | | | |
| Cadmium | ug/L | | 4.5 J | 2.4 J | .34 J | | | | |
| Chromium | ug/L | | 270 | 120 | 58 | | | | |
| Lead | ug/L | | **440** | **180** | 29 | | | | |
| Mercury | ug/L | | 1 | 0.35 | .057 J | | | | |
| Selenium | ug/L | | 13 | 8.3 | 3.7 J | | | | |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 12 Ramp SW and MLK Mainline Soil Detections**

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Points | | | | | |
|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-VDOT-13** | **3E-VDOT-14W** | **3E-VDOT-14WD** | **3E-012-16** | **3E-012-17W** | **3E-012-19W** |
| **Sample ID:** | | **13 @ 2-4'** | **14W @ 2-4'** | **14WD @ 2-4'** | **16 @ 2-4'** | **17W @ 2-4'** | **19W @ 2-4'** |
| **Analytical Constituent** | **Units** | **Results**** | | | | | |
| Oil and Grease | mg/Kg | 58 JB | 41 JB | 55 JB | 34 JB | 57 JB | 46 |
| TPH-DRO | mg/Kg | 3.9 | 5.5 | ND | ND | ND | ND |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | |
| Arsenic | mg/Kg | | | | | **1.1** | ***4.3*** |
| Barium | mg/Kg | | | | | 35 | 57 |
| Cadmium | mg/Kg | | | | | 0.032 J | 0.031 J |
| Chromium | mg/Kg | | | | | ***8.3*** | ***16*** |
| Lead | mg/Kg | | | | | 7.8 | 10 |
| Mercury | mg/Kg | | | | | 0.026 J | 0.029 J |
| Selenium | mg/Kg | | | | | 0.46 JB | 0.74 B |
| Silver | mg/Kg | | | | | ND | ND |
| **WASTE CHARACTERISTICS [1]** | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | |
| Arsenic | mg/L | | | | | | 0.02 J |
| Barium | mg/L | | | | | | 0.28 B |
| Cadmium | mg/L | | | | | | 0.0003 JB |
| Chromium | mg/L | | | | | | 0.0041 J |
| Lead | mg/L | | | | | | 0.03 J |
| Selenium | mg/L | | | | | | 0.012 JB |
| **Soil Category:** | | Category 6 | Category 6 | Category 6 | Category 5 | Category 2 | Category 6 |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 13 Ramp SW and MLK Mainline Groundwater Detections**

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Points | | | |
|---|---|---|---|---|---|
| **Boring ID:** | | **3E-VDOT-14W** | **3E-VDOT-14WD** | **3E-012-17W** | **3E-012-19W** |
| **Sample ID:** | | **14W** | **14WD** | **17W** | **19W** |
| **Analytical Constituent** | **Units** | **Results** | | | |
| Oil and Grease | mg/L | ND | 4.5 J B | ND | ND |
| TPH-DRO | mg/L | 0.2 | 0.2 | 0.32 | 0.2 |
| TOX | mg/L | 0.071 | 0.074 | | |
| **Volatile Organic Constituents (Method 8260)** | | | | | |
| 1,2,4-Trichlorobenzene | ug/L | | | 0.45 J B* | ND* |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | |
| Arsenic | ug/L | | | 73 | **760** |
| Barium | ug/L | | | **690** | **450** |
| Cadmium | ug/L | | | ND | ND |
| Chromium | ug/L | | | **230** | **260** |
| Lead | ug/L | | | **160** | **140** |
| Mercury | ug/L | | | 0.69 | 0.41 |
| Selenium | ug/L | | | 4.3J | ND |
| Silver | ug/L | | | ND | ND |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 14 Ramp WM and SWM Ponds 19 and 20 Soil Detections**

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Points | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-012-20** | **3E-015-21W** | **3E-015-22W** | **3E-VDOT-23W** | **3E-017-24W** | **3E-VDOT-25W** | **3E-VDOT-26W** | **3E-VDOT-68W** | **3E-015-80** |
| **Sample ID:** | | **20 @ 2-4'** | **21W @ 2-4'** | **22W @ 2-4'** | **23W @ 2-4'** | **24W @ 2-4'** | **25W @ 2-4'** | **26W @ 2-4'** | **68W @ 2-4'** | **80 @ 6-12"** |
| **Analytical Constituent** | **Units** | **Results** | | | | | | | | |
| Oil and Grease | mg/Kg | 67 | ND | ND | 44 J B | ND | 57 J B | ND | 68 J B | 270 |
| TPH-DRO | mg/Kg | ND | ND | ND | 4.9 | ND | 8.7 | 8.3 | 7.8 | 140 |
| Xylenes | ug/Kg | ND | ND | 3.1 J | ND | ND | ND | ND | ND H | ND |
| Total BTEX | ug/Kg | ND | ND | 3.1 | ND | ND | ND | ND | ND | ND |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | |
| Arsenic | mg/Kg | | | | ***2.3*** | | | ***5.9*** | | |
| Barium | mg/Kg | | | | 27 | | | 29 | | |
| Cadmium | mg/Kg | | | | ND | | | ND | | |
| Chromium | mg/Kg | | | | ***8.5*** | | | ***15*** | | |
| Lead | mg/Kg | | | | 20 | | | 7.6 | | |
| Mercury | mg/Kg | | | | 0.047 | | | 0.011 J | | |
| Selenium | mg/Kg | | | | 0.33 J | | | ND | | |
| Silver | | | | | ND | | | ND | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | |
| Barium | mg/L | | | | 0.21 B | | | | | |
| Cadmium | mg/L | | | | 0.00031 J | | | | | |
| Chromium | mg/L | | | | 0.0020 JB | | | | | |
| Lead | mg/L | | | | 0.017 J | | | | | |
| Selenium | mg/L | | | | 0.0066 JB | | | | | |
| Silver | mg/L | | | | 0.00083 JB | | | | | |
| **TCLP VOCs (Methods 1311 & 8260B)** | | | | | | | | | | |
| Tetrachloroethene | mg/L | | ND | | 0.037 J | | | ND | | |
| **General Chemistry** | | | | | | | | | | |
| Cyanide | mg/Kg | | | | ND | | | | | |
| Sulfide | mg/Kg | | | | 490 | | | | | |
| pH | | | | | 7.08 H | | | | | |
| Ignitability (Flashpoint) | F | | | | >140 | | | | | |
| **Soil Category:** | | Category 6 | Category 6 | Category 6 | Category 6 | Category 6 | Category 6 | Category 6 | Category 6 | Category 4 |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 15 Ramp WM and SWM Ponds 19 and 20 Groundwater Detections**

| Ramp WN & Ponds 19 & 20 Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Points | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-015-21W** | **3E-015-22W** | **3E-VDOT-23W** | **3E-017-24W** | **3E-VDOT-25W** | **3E-VDOT-26W** | **3E-VDOT-68W** |
| **Sample ID:** | | **21W** | **22W** | **23W** | **24W** | **25W** | **26W** | **68W** |
| **Analytical Constituent** | **Units** | **Results** | | | | | | |
| Oil and Grease | mg/L | 2.2 J | 2.3 J | 1.8 J | 2.2J | ND | 2.3 J | 2.0 J |
| TPH-DRO | mg/L | 0.12 | 0.48 | 0.26 | 0.22 | 0.47 | .075 J | 0.23 |
| TOX | mg/L | | 0.064 | | 0.02 | 0.087 | | 0.083 |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | |
| Arsenic | ug/L | | | 84 | | | 6.3 J | |
| Barium | ug/L | | | 160 J | | | 34 J | |
| Cadmium | ug/L | | | 2.2 J | | | ND | |
| Chromium | ug/L | | | 88 | | | 15 | |
| Lead | ug/L | | | 42 | | | 7 | |
| Mercury | ug/L | | | .086 J | | | ND | |
| Selenium | ug/L | | | 5.5 | | | ND | |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 16 CSX and Vulcan Properties Soil Detections**

| CSX & Vulcan Parcels:012 | | Boring / Groundwater Sampling Points | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-012-28W** | **3E-012-29W** | **3E-012-31W** | **3E-012-31W** | **3E-012-32** | **3E-012-33W** | **3E-012-35W** |
| **Sample ID:** | | **28W @ 2-4'** | **29W @ 2-4'** | **31W @ 2-4'** | **31WD @ 2-4'** | **32 @ 4-6'** | **33W @ 3-5'** | **35W @ 7-9'** |
| **Analytical Constituent** | **Units** | **Results** | | | | | | |
| Oil and Grease | mg/Kg | 150 | 62 JB | 330 B | 1000 B | 940 B | 1600 B | 480 B |
| TPH-DRO | mg/Kg | **65** | 7 | **59** | **120** | **300** | **240** | **710** |
| TPH-GRO | mg/Kg | 0.19 J | ND | 0.098 J | ND | 15 | 1.9 | 12 |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | 290 | | ND |
| Xylenes | ug/Kg | ND | ND | ND | ND | 520 | | ND |
| Total BTEX | ug/Kg | ND | ND | ND | ND | 810 | | ND |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | |
| 2-Methylnaphthalene | ug/Kg | | 81 J | | | | 130 J | |
| Acenaphthene | ug/Kg | | 9.6 J | | | | 280 | |
| Acetophenone | ug/Kg | | 42J | | | | ND | |
| Anthracene | ug/Kg | | 16J | | | | ND | |
| Benzo(a) pyrene | ug/Kg | | 44 J | | | | ND | |
| Benzo(a)anthracene | ug/Kg | | 76 J | | | | ND | |
| Benzo(b) fluoranthene | ug/Kg | | 84 | | | | ND | |
| Benzo(g,h,i) perylene | ug/Kg | | 56 J | | | | ND | |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | 78 J | | | | ND | |
| Carbazole | ug/Kg | | 8.1 J | | | | ND | |
| Chrysene | ug/Kg | | 110 | | | | ND | |
| Dibenzo(a,h) anthracene | ug/Kg | | 27 J | | | | ND | |
| Fluoranthene | ug/Kg | | 80 J | | | | ND | |
| Fluorene | ug/Kg | | 12 J | | | | 380 | |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | 35 J | | | | ND | |
| Naphthalene | ug/Kg | | 130 J | | | | ND | |
| Phenanthrene | ug/Kg | | 130 | | | | 440 | |
| Pyrene | ug/Kg | | 86 | | | | 85 J | |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | |
| Arsenic | mg/Kg | | ***6.4*** | | | | ***3.5*** | |
| Barium | mg/Kg | | 120 | | | | 36 | |
| Chromium | mg/Kg | | ***12*** | | | | ***12*** | |
| Lead | mg/Kg | | 170 | | | | 50 | |
| Mercury | mg/Kg | | 0.22 | | | | 0.037 J | |
| Selenium | mg/Kg | | 1.3B | | | | 0.6 B | |
| **WASTE CHARACTERISTICS[1]** | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | |
| Arsenic | mg/L | | 0.0049 J | | | | | |
| Barium | mg/L | | 0.61 B | | | | 1 B | |
| Cadmium | mg/L | | 0.00042 J | | | | 0.0039 JB | |
| Chromium | mg/L | | 0.0018 J | | | | 0.0054 J | |
| Lead | mg/L | | 0.15 | | | | 1.3 | |
| Mercury | mg/Kg | | ND H | | | | | |
| Selenium | mg/L | | 0.012 JB | | | | 0.012 JB | |
| Silver | mg/L | | ND | | | | | |
| **Soil Category:** | | Category 4 | Category 4 | Category 4 | Category 4 | Category 4 | Category 4 | Category 2 |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 17 CSX and Vulcan Properties Groundwater Detections**

| CSX & Vulcan Parcels:012 | | Boring / Groundwater Sampling Points | | | | | |
|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-012-28W** | **3E-012-29W** | **3E-012-31W** | **3E-012-31W** | **3E-012-33W** | **3E-012-35W** |
| **Sample ID:** | | **28W** | **29W** | **31W** | **31WD** | **33W** | **35W** |
| **Analytical Constituent** | **Units** | **Results** | | | | | |
| Oil and Grease | mg/L | 4.7 J | ND | ND | ND | ND | 23 |
| TPH-DRO | mg/L | 0.26 | 0.88 | 0.16 | 0.41 | 1.7 | 1.4 |
| TPH-GRO | mg/L | ND | ND | ND | ND | ND | 0.025 J |
| TOX | mg/L | 0.024 | | 0.039 | 0.047 | | 0.13 |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | |
| 1,2,4-Trichlorobenzene | ug/L | | 0.63J B* | | | 2.6JB * | |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | |
| 2-Methylnaphthalene | ug/L | | ND | | | 2.4 | |
| Acenaphthene | ug/L | | ND | | | 4.4 | |
| Benzaldehyde | ug/L | | 5J | | | ND | |
| Fluorene | ug/L | | ND | | | 0.87 J | |
| Naphthalene | ug/L | | ND | | | 2.2 | |
| Phenanthrene | ug/L | | ND | | | 0.87J | |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | |
| Arsenic | ug/L | | 77 | | | 90 | |
| Barium | ug/L | | 230 | | | 190 J | |
| Cadmium | ug/L | | 0.37 J | | | ND | |
| Chromium | ug/L | | 120 | | | 110 | |
| Lead | ug/L | | 110 | | | 200 | |
| Mercury | ug/L | | 0.092 J | | | 0.17J | |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 18 Old Dominion Demolition and SWM Pond 24 Soil Detections**

| Dominion Demolition & Pond 24 Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Points | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | 3E-024-37 | 3E-024-38W | 3E-025-39 | 3E-025-40W | 3E-025-41W | 3E-025-41W | 3E-029-42W | 3E-025-43W | 3E-025-43W | 3E-025-44W | 3E-025-45W | 3E-025-46W | 3E-025-81 |
| **Sample ID:** | | 37 @ 2-4' | 38W @ 4-6' | 39 @ 2-4' | 40W @ 2-4' | 41W @ 0-1' | 41W @ 5-7' | 42W @ 2-4' | 43W @ 2-4' | 43WD @ 2-4' | 44W @ 2-4' | 45W @ 1-3' | 46W @ 2-4' | 81 @ 2-4' |
| **Analytical Constituent** | **Units** | **Results**** | | | | | | | | | | | | |
| Oil and Grease | mg/Kg | 490 B | 560 | 72 J | 51 J | 12000 | 130 J | 66 J B | 81 J | 82 J | 140 J | 130 J | 87 J | 100 J B |
| TPH-DRO | mg/Kg | **280** | **52** | 2.5 J | ND | **2900** | 4 J | 5.8 | 2.5 J | 3.1 J | 10 | 10 | **55** | 8.3 |
| TPH-GRO | mg/Kg | ND | ND | ND | ND | 0.91 | 0.35 | ND | ND | ND | ND | ND | ND | .3 J |
| Toluene | ug/Kg | ND | ND | ND | ND | 6.9 | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | 11 | ND | ND | ND | ND | ND | ND | ND | ND |
| Xylenes | ug/Kg | ND | ND | ND | ND | 93 | ND | ND | ND | ND | ND | ND | ND | ND |
| Total BTEX | ug/Kg | ND | ND | ND | ND | 110.9 | ND | ND | ND | ND | ND | ND | ND | ND |
| EOX | mg/Kg | 9.6 J | | ND | | ND | | ND | ND | ND | | ND | ND | ND |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | ug/Kg | | ND | | 1.3 J | | ND | | | | ND | | | |
| Acetone | ug/Kg | | ND | | ND | | ND | | | | 7.4 | | | |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | 11 | ND | ND | ND | ND | ND | ND | ND | ND |
| Xylenes (Total) | ug/Kg | ND | ND | ND | ND | 93 | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | ug/Kg | ND | ND | ND | ND | 6.9 | ND | ND | ND | ND | ND | ND | ND | ND |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | ug/Kg | | 11 J | | 7.2 J | | 12 J | | | | ND | | | |
| Acenaphthene | ug/Kg | | 22 J | | ND | | ND | | | | ND | | | |
| Anthracene | ug/Kg | | 33 J | | 7.8 J | | ND | | | | ND | | | |
| Benzo(a) pyrene | ug/Kg | | 47 J | | 57 J | | ND | | | | 49 J | | | |
| Benzo(a)anthracene | ug/Kg | | 47 J | | 51 J | | ND | | | | 47 J | | | |
| Benzo(b) fluoranthene | ug/Kg | | 38 J | | 86 | | ND | | | | 66 J | | | |
| Benzo(g,h,i) perylene | ug/Kg | | 45 J | | 54 J | | ND | | | | 42 J | | | |
| Benzo(k) fluoranthene | ug/Kg | | 24 J | | ND | | ND | | | | ND | | | |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | 140 J | | 63 J | | ND | | | | ND | | | |
| Chrysene | ug/Kg | | 51 J | | 64 J | | ND | | | | 49 J | | | |
| Dibenzo(a,h) anthracene | ug/Kg | | 11 J | | 16 J | | ND | | | | ND | | | |
| Fluoranthene | ug/Kg | | 70 J | | 76 J | | ND | | | | 63 J | | | |
| Fluorene | ug/Kg | | 22 J | | ND | | ND | | | | ND | | | |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | 33 J | | 45 J | | ND | | | | 45 J | | | |
| Phenanthrene | ug/Kg | | 88 | | 42 J | | ND | | | | 15 J | | | |
| Pyrene | ug/Kg | | 96 | | 71 J | | ND | | | | 60 J | | | |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | |
| Arsenic | mg/Kg | | ***2.4*** | ***2.2*** | ***2.2*** | | **1.3** | | | | ***5*** | | | |
| Barium | mg/Kg | | 17 J B | 58 B | 58 B | | 22 J B | | | | 47 B | | | |
| Cadmium | mg/Kg | | 0.049 J | 0.073 J | 0.073 J | | 0.036 J | | | | 0.88 | | | |
| Chromium | mg/Kg | | ***8.1*** | ***17*** | ***17*** | | ***12*** | | | | ***10*** | | | |
| Lead | mg/Kg | | 5.9 | 9.6 | 9.6 | | 15 | | | | 67 | | | |
| Mercury | mg/Kg | | ND | 0.14 | 0.14 | | ND | | | | 0.082 | | | |
| Selenium | mg/Kg | | ND | 0.63 B | 0.63 B | | 0.3 J B | | | | 0.64 B | | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | |
| Arsenic | mg/L | | ND | | 0.013 J | | 0.0072 J | | | | 0.0059 J | | | |
| Barium | mg/L | | 0.16 J | | 0.33 B | | 0.11 J B | | | | 0.27 B | | | |
| Cadmium | mg/L | | 0.00062 J B | | 0.00018 J | | 0.00020 J | | | | 0.00041 J | | | |
| Chromium | mg/L | | 0.0046 J | | 0.0044 J | | 0.0025 J | | | | 0.0017 J | | | |
| Lead | mg/L | | 0.034 J | | 0.036 J | | 0.0065 J | | | | 0.016 J | | | |
| Selenium | mg/L | | 0.0066 J B | | 0.0068 J B | | 0.0052 J B | | | | 0.0057 J B | | | |
| **General Chemistry** | | | | | | | | | | | | | | |
| Cyanide | mg/Kg | | ND | | ND | | ND | | | | ND | | | |
| Sulfide | mg/Kg | | 7.6 J | | ND | | ND | | | | ND | | | |
| pH | | | 6.24 | | 5.78 | | 6.12 | | | | 5.67 | | | |
| Ignitability (Flashpoint) | F | | >140 F | | >140 | | >140 | | | | >140 | | | |
| **Soil Category:** | | Category 4 | Category 5 | Category 6 | Category 6 | Category 2 | Category 6 | Category 6 | Category 6 | Category 6 | Category 5 | Category 6 | Category 4 | Category 6 |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 19 Old Dominion Demolition and SWM Pond 24 Groundwater Detections**

| Dominion Demolition & Pond 24 Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Points | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-024-38W | 3E-025-40W | 3E-025-41W | 3E-029-42W | 3E-025-43W | 3E-025-43W | 3E-025-44W | 3E-025-45W | 3E-025-46W |
| Sample ID: | | 38W | 40W | 41W | 42W | 43W | 43WD | 44W | 45W | 46W |
| Analytical Constituent | Units | Results | | | | | | | | |
| Oil and Grease | mg/L | 2.9 J | 2.3 J | 2.7 J | 2.2 J B | 4.2 J | 2.4 J | 2.2 J | 1.9 J | ND |
| TPH-DRO | mg/L | 0.84 | 1.3 | 1.9 | 0.43 | 2.2 | 2 | 1.2 | 0.38 | 0.84 |
| TOX | mg/L | 0.081 | | | 0.031 | 0.11 | 0.12 | | 0.019 | 0.029 |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | |
| Methyl tert-butyl ether | ug/L | | 3.6 J | 17 | | | | ND | | |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | |
| Fluoranthene | ug/L | | ND | ND | | | | .3 J | | |
| Fluorene | ug/L | | ND | ND | | | | .29 J | | |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | |
| Arsenic | ug/L | | 94 | 11 | | | | 38 | | |
| Barium | ug/L | | 380B | 110 J B | | | | 150 J B | | |
| Cadmium | ug/L | | 4.1 J | .94 J | | | | 1.8 J | | |
| Chromium | ug/L | | 210 | 14 | | | | 1.1 J | | |
| Lead | ug/L | | 65 | 2.7 J | | | | ND | | |
| Mercury | ug/L | | .18 J | ND | | | | ND | | |
| Selenium | ug/L | | 4.4 J | ND | | | | ND | | |
| Silver | ug/L | | ND | ND | | | | ND | | |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 20 South Harbor Drive and SWM Pond 25 Soil Detections**

| Pond 25 Parcels: 031, 032, 034, 051, 052, 053, 054, 055, & VDOT | | Boring / Groundwater Sampling Points | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-031-47W** | **3E-032-48W** | **3E-034-49W** | **3E-034-49W** | **3E-034-50W** | **3E-VDOT-51W** | **3E-031-52W** | **3E-033-53W** | **3E-VDOT-54W** | **3E-VDOT-55W** |
| **Sample ID:** | | **47W @ 2-4'** | **48W @ 3-5'** | **49WD @ 8-10'** | **49W @ 8-10'** | **50W @ 9-11'** | **51W @ 8-10'** | **52W @ 2-4'** | **53W @ 4-6'** | **54W @ 2-4'** | **55W @ 3-5'** |
| **Analytical Constituent** | **Units** | **Results** | | | | | | | | | |
| Oil and Grease | mg/Kg | 54 J B | 37 J B | 300 B | 250 B | 51 J B | 290 B | 64 J B | 230 B | 45 JB | 43 J B |
| TPH-DRO | mg/Kg | 5.5 | 2.8 J | **38** | **26** | 3.4 J | 4.6 | 4.2 | 4.8 | 4.8 | 4.9 |
| TPH-GRO | mg/Kg | ND | ND | **92** | **110** | ND | ND | ND | ND | ND | ND |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | 1.2 J | ND | ND | ND | ND |
| Ethylbenzene | ug/Kg | ND | ND | ND | 350 | ND | ND | ND | ND | ND | ND |
| Xylenes | ug/Kg | ND | ND | ND | 190 J | ND | ND | ND | ND | ND | ND |
| EOX | mg/Kg | ND | ND | ND | ND | ND | | | ND | ND | 17 |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | |
| 2-Butanone | ug/Kg | | | | | | 5.1 J | 6.0 J | | | |
| Acetone | ug/Kg | | | | | | 22 J | ND | | | |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | 1.2 J | ND | ND | ND | ND |
| Carbon disulfide | ug/Kg | | | | | | 3.2 J | ND | | | |
| Ethylbenzene | ug/Kg | ND | ND | ND | 350 | ND | ND | ND | ND | ND | ND |
| Xylenes (Total) | ug/Kg | ND | ND | ND | 190 J | ND | ND | ND | ND | ND | ND |
| Methyl tert-butyl ether | ug/Kg | | | | | | 3.4 J | ND | | | |
| Methylcyclohexane | ug/Kg | | | | | | 3.3 J | ND | | | |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | | | | | ND | 68 J | | | |
| N-Nitrosodiphenylamine | ug/Kg | | | | | | 85 J | ND | | | |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | |
| Arsenic | mg/Kg | | | | | | **4** | .65 J | | | |
| Barium | mg/Kg | | | | | | 7.1 J B | 9.3 J B | | | |
| Cadmium | mg/Kg | | | | | | .046 J | ND | | | |
| Chromium | mg/Kg | | | | | | 5.3 B | 4.7B | | | |
| Lead | mg/Kg | | | | | | 2.2 | 2.5 | | | |
| Selenium | mg/Kg | | | | | | .22 J | ND | | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | |
| Barium | mg/L | | | | | | .13 J | 0.22 | | | |
| Cadmium | mg/L | | | | | | .00096 J B | ND | | | |
| Chromium | mg/L | | | | | | .0012 J | .0019 J | | | |
| Lead | mg/L | | | | | | .0057 J | .0098 J | | | |
| Selenium | mg/L | | | | | | .0067 J B | .0040 J B | | | |
| Cyanide | mg/L | | | | | | .31 J | .14 J | | | |
| Sulfide | mg/Kg | | | | | | 45 | 29 J | | | |
| pH | | | | | | | 7.25 H | 5.1 H | | | |
| Ignitability (Flashpoint) | deg F | | | | | | >140 | >140 | | | |
| **Soil Category:** | | Category 6 | Category 6 | Category 4 | Category 4 | Category 6 | Category 5 | Category 6 | Category 6 | Category 6 | Category 6 |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 21 SWM Pond South Harbor Drive and SWM Pond 25 Groundwater Detections**

| Pond 25 Parcels: 031, 032, 034, 051, 052, | | Boring / Groundwater Sampling Points | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-031-47W** | **3E-032-48W** | **3E-034-49W** | **3E-034-49W** | **3E-034-50W** | **3E-VDOT-51W** | **3E-031-52W** | **3E-033-53W** | **3E-VDOT-54W** | **3E-VDOT-55W** |
| **Sample ID:** | | **47W** | **48W** | **49W** | **49WD** | **50W** | **51W** | **52W** | **53W** | **54W** | **55W** |
| **Analytical Constituent** | **Units** | **Results** | | | | | | | | | |
| Oil and Grease | mg/L | ND | 1.8 J B | 1.8 J B | 2.0 J B | 2.3 J B | 1.9 J B | ND | 1.8 J B | ND | ND |
| TPH-DRO | mg/L | 0.15 | 0.65 | 1.4 | 1.1 | 0.31 | 1.4 | 0.24 | 0.33 | 0.33 | 0.29 |
| TPH-GRO | mg/L | ND | 0.029 J | 0.3 | 0.36 | 0.058 | 0.13 | ND | 0.012 J | 0.011J | ND |
| Benzene | ug/L | ND | ND | 2.5 | 2.6 | 3.6 | 26 | .29 J | ND | 5.2 | ND |
| Toluene | ug/L | ND | ND | ND | ND | ND | 0.23 J | ND | ND | ND | ND |
| Ethylbenzene | ug/L | ND | ND | 1.4 | 1.7 | ND | ND | ND | ND | ND | ND |
| Xylenes (Total) | ug/L | ND | ND | 1.2 J | 1.3 J | ND | ND | ND | ND | ND | ND |
| o-Xylene | ug/L | | | | | | ND | ND | | | |
| m&p-Xylene | ug/L | | | | | | ND | ND | | | |
| TOX | mg/L | 0.027 | 0.054 | 0.032 | 0.019 | 0.043 | | | 0.02 | 0.039 | 0.037 |
| **Volatile Organic Constituents** | | | | | | | | | | | |
| Acetone | ug/L | | | | | | 4.6 J | ND | | | |
| Benzene | ug/L | ND | ND | 2.5 | 2.6 | 3.6 | 26 | 0.29 J | ND | 5.2 | ND |
| cis-1,2-Dichloroethene | ug/L | | | | | | 0.27 J | ND | | | |
| Cyclohexane | ug/L | | | | | | 0.99 J | ND | | | |
| Isopropylbenzene | ug/L | | | | | | 1.4 | ND | | | |
| Xylenes (Total) | ug/L | ND | ND | 1.2 J | 1.3 J | ND | ND | ND | ND | ND | ND |
| Methyl tert-butyl ether | ug/L | | | | | | 38 | 12 | | | |
| Methylcyclohexane | ug/L | | | | | | 4.3 | ND | | | |
| Tetrachloroethene | ug/L | | | | | | ND | 0.17 J | | | |
| Toluene | ug/L | ND | ND | ND | ND | ND | 0.23 J | ND | ND | ND | ND |
| Trichloroethene | ug/L | | | | | | 0.22 J | ND | | | |
| **Semi-Volatile Constituents** | | | | | | | | | | | |
| 2-Methylnaphthalene | ug/L | | | | | | 1.0 J | ND | | | |
| Acenaphthene | ug/L | | | | | | 1.6 J | ND | | | |
| Benzo(a) pyrene | ug/L | | | | | | ND | 0.33 J | | | |
| Benzo(a)anthracene | ug/L | | | | | | ND | 0.59 J | | | |
| Benzo(b) fluoranthene | ug/L | | | | | | ND | 0.59 J | | | |
| Benzo(g,h,i) perylene | ug/L | | | | | | ND | 0.61 J | | | |
| Benzo(k) fluoranthene | ug/L | | | | | | ND | 0.64 J | | | |
| Chrysene | ug/L | | | | | | ND | 0.68 J | | | |
| Dibenzo(a,h) anthracene | ug/L | | | | | | ND | 0.66 J | | | |
| Dibenzofuran | ug/L | | | | | | 0.62 J | ND | | | |
| Fluorene | ug/L | | | | | | .58 J | ND | | | |
| Indeno(1,2,3,-cd) pyrene | ug/L | | | | | | ND | 0.57 J | | | |
| **RCRA Metals** | | | | | | | | | | | |
| Arsenic | ug/L | | | | | | 59 | ND | | | |
| Barium | ug/L | | | | | | 100 J | 32J | | | |
| Cadmium | ug/L | | | | | | 0.45 J | 0.58 J | | | |
| Chromium | ug/L | | | | | | 2.7 J | 1.6 J | | | |
| Lead | ug/L | | | | | | ND | 1.9 J | | | |
| Silver | ug/L | | | | | | 0.73 J | ND | | | |

**NOTES:**

Analysis not performed on sample

[1] 40 CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 22**
**North Harbor Drive and SWM Pond 30 Soil Detections**

| County St. to London BLVD Parcels: 056 to 067, & VDOT | | Boring / Groundwater Sampling Points | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-036-56 | 3E-VDOT-57 | 3E-046-61 | 3E-054-62 | 3E-059-65 | 3E-VDOT-66W | 3E-VDOT-67W |
| Sample ID: | | 56 @ 2-4' | 57 @ 2-4' | 61 @ 0-1' | 62 @ 4-6' | 65 @ 4-6' | 66W @ 3-5' | 67W @ 3-5' |
| Soil Classification: | | | | | | | | |
| Analytical Constituent | Units | Results | | | | | | |
| Oil and Grease | mg/Kg | 25 J B | 50 J B | 73 J B | 63 J B | 47 J B | 83 J | 60 J |
| TPH-DRO | mg/Kg | 5.7 | 2.7 J | 10 | ND | 3.7 J | 3.4 J | 2.5 J |
| Soil Category: | | Category 6 | Category 6 | Category 6 | Category 6 | Category 6 | Category 6 | Category 6 |

**Table 23**
**North Harbor Drive and SWM Pond 30 Groundwater Detections**

| County St. to London BLVD Parcels: 056 to 067, & VDOT | | Boring / Groundwater Sampling Points | |
|---|---|---|---|
| Boring ID: | | 3E-VDOT-66W | 3E-VDOT-67W |
| Sample ID: | | 66W | 67W |
| Analytical Constituent | Units | Results | |
| Oil and Grease | mg/L | ND | 2 J |
| TPH-DRO | mg/L | 0.1 | 0.15 |
| TOX | mg/L | 0.043 | 0.034 |

**NOTES:**

= Analysis not performed on sample

[1] 40CFR Part 261.4

* Lab control sample exceeds the control limits.

** Bold values exceed regulatory criteria or standards. See summary tables in Attachment B.

**Data Qualifiers:**

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 24: Relative Percent Difference of Field Duplicate Soil Samples**

| Boring ID: | | 3E-VDOT-10W | | | 3E-VDOT-14W | | | 3E-025-43W | | | 3E-034-49W | | | 3E-012-31W | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | 10W @ 2-4' | 10WD @ 2-4' | %RPD | 14W @ 2-4' | 14WD @ 2-4' | %RPD | 43W @ 2-4' | 43WD @ 2-4' | %RPD | 49WD @ 8-10' | 49W @ 8-10' | %RPD | 31W @ 2-4' | 31WD @ 2-4' | %RPD |
| **Analytical Constituent** | **Units** | **Results** | | | | | | | | | | | | | | |
| Oil and Grease (HEM) | mg/Kg | 130 J B | 130 J B | 0% | 41 J B | 55 J B | 29% | 81 J | 82 J | 1% | 300 B | 250 B | 18% | 330 B | 1000 B | 18% |
| TPH-DRO | mg/Kg | 3.1 J | ND | 14% | 5.5 | ND | 34% | 2.5 J | 3.1 J | 21% | 38 | 26 | 38% | 59 | 120 | 68% |
| TPH-GRO | mg/Kg | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | 92 | 110 | 18% | 0.098 J | ND | 119% |
| Benzene | ug/Kg | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| Toluene | ug/Kg | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| Ethylbenzene | ug/Kg | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | 350 | 138% | ND | ND | 138% |
| Xylenes (total) | ug/Kg | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | 190 J | 111% | ND | ND | 111% |
| EOX | mg/Kg | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |

36% RPD greater than 35%

ND - Not Detected Above the Laboratory's Method Detection Limit

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

**Table 25: Relative Percent Difference of Field Duplicate Groundwater Samples**

| Boring ID: | | 3E-034-49W | | | 3E-008-06W | | | 3E-VDOT-10W | | | 3E-VDOT-14W | | | 3E-025-43W | | | 3E-012-31W | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | 49W | 49WD | %RPD | 06W | 06WD | %RPD | 10W | 10WD | %RPD | 14W | 14WD | %RPD | 43W | 43WD | %RPD | 31W | 31WD | %RPD |
| Analytical Constituent | Units | Results | | | | | | | | | | | | | | | | | |
| Oil and Grease | mg/L | 1.8 J B | 2.0 J B | 11% | 4.6 J | 2.2 J | 71% | 3.1 J | 3.8 J | 20% | ND | 4.5 J B | 29% | 4.2 J | 2.4 J | 55% | ND | ND | 0% |
| TPH-DRO | mg/L | 1.4 | 1.1 | 24% | 0.65 | 0.76 | 16% | 0.088 J | 0.093 J | 6% | 0.2 | 0.2 | 0% | 2.2 | 2 | 10% | 0.16 | 0.41 | 88% |
| TPH-GRO | mg/L | 0.3 | 0.36 | 18% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| Benzene | ug/L | 2.5 | 2.6 | 4% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| Ethylbenzene | ug/L | 1.4 | 1.7 | 19% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| Xylenes (Total) | ug/L | 1.2 J | 1.3 J | 8% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| TOX | mg/L | 0.032 | 0.019 | 51% | 0 | ND | 0% | 0.021 | 0.027 | 25% | 0.071 | 0.074 | 4% | 0.11 | 0.12 | 9% | 0.039 | 0.047 | 19% |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | | | | | | | | | |
| Benzene | ug/L | 2.5 | 2.6 | 4% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| Ethylbenzene | ug/L | 1.4 | 1.7 | 19% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| Xylenes (Total) | ug/L | 1.2 J | 1.3 J | 8% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% | ND | ND | 0% |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | | | | | | |
| Arsenic | ug/L | | | | 140 | 70 | 67% | | | | | | | | | | | | |
| Barium | ug/L | | | | 970 | 510 | 62% | | | | | | | | | | | | |
| Cadmium | ug/L | | | | 4.5 J | 2.4 J | 61% | | | | | | | | | | | | |
| Chromium | ug/L | | | | 270 | 120 | 77% | | | | | | | | | | | | |
| Lead | ug/L | | | | 440 | 180 | 84% | | | | | | | | | | | | |
| Mercury | ug/L | | | | 1 | 0.35 | 96% | | | | | | | | | | | | |
| Selenium | ug/L | | | | 13 | 8.3 | 44% | | | | | | | | | | | | |

36% RPD greater than 35%

ND - Not Detected Above the Laboratory's Method Detection Limit

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

# FIGURES

# SOIL BORING & GROUNDWATER SAMPLE POINTS BY FIGURE

***Figure 8***
- *3E-Pond8-69W*
- *3E-Pond8-70W*

***Figure 9***
- *3E-005-1*
- *3E-006-2W*

***Figure 10***
- *3E-007-3*

***Figure 11***
- *3E-008-4W*
- *3E-007-5*
- *3E-008-6W[3]*

***Figure 12***
- *3E-009-7W*
- *3E-008-8W*
- *3E-008-9W*
- *3E-VDOT-10W[3]*
- *3E-n/a-11[1]*

***Figure 13***
- *3E-n/a-12[1]*
- *3E-VDOT-13*
- *3E-VDOT-14W*
- *3E-n/a-15[1]*
- *3E-012-16*
- *3E-012-17W*
- *3E-n/a-18[1]*

***Figure 14***
- *3E-VDOT-25W*

***Figure 15***
- *3E-015-21W*
- *3E-015-22W*
- *3E-015-23W*
- *3E-015-24W*
- *3E-VDOT-26W*
- *3E-015-80*
- *3E-082-82[2]*
- *3E-082-83[2]*

***Figure 16***
- *3E-VDOT-68W*

***Figure 17***
- *3E-012-19W*
- *3E-012-20*
- *3E-n/a-27[1]*
- *3E-012-28W*
- *3E-012-29W*
- *3E-n/a-30[1]*
- *3E-012-31W*

***Figure 18***
- *3E-012-32*
- *3E-012-33W*
- *3E-n/a-34[1]*
- *3E-012-35W*
- *3E-n/a-36W[1]*
- *3E-024-37*
- *3E-024-38W*
- *3E-025-39*
- *3E-025-40W*
- *3E-025-43W[3]*
- *3E-024-81*

***Figure 19***
- *3E-025-41W[3]*
- *3E-028-42W*
- *3E-025-44W*
- *3E-025-45W*
- *3E-025-46W*
- *3E-031-47W*
- *3E-032-48W*
- *3E-034-49W[3]*
- *3E-034-50W*
- *3E-VDOT-51W*
- *3E-031-52W*
- *3E-033-53W*
- *3E-VDOT-54W*
- *3E-VDOT-55W*
- *3E-036-56*

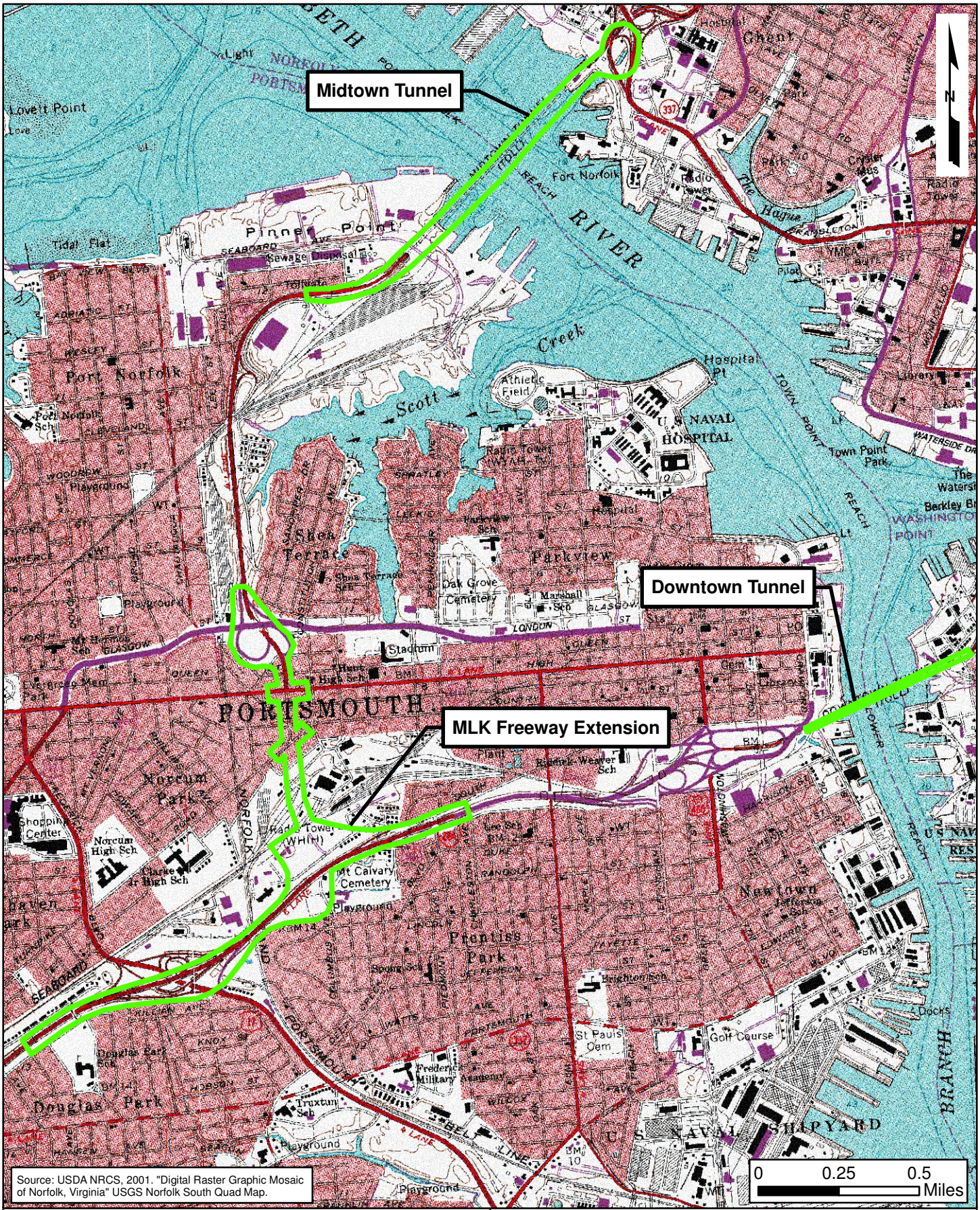
***Figure 28***
- *3E-037-57*
- *3E-VDOT-58[1]*
- *3E-VDOT-59[2]*
- *3E-VDOT-60[1]*
- *3E-046-61*
- *3E-054-62*
- *3E-054-63[2]*
- *3E-056-64[1]*
- *3E-059-65*

***Figure 29***
- *3E-VDOT-66W*
- *3E-VDOT-67W*

| Label Format: Company-Parcel-Point # |
|---|
| [1] No sample taken (location omitted) |
| [2] Sample taken, but no laboratory analysis performed |
| [3] Multiple samples taken |

EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

**Figure 1**
**Project Location**
DTT/MTT/MLK Freeway Extension
Task 2 Hazardous Material Investigation
EEE Project Number 12-074

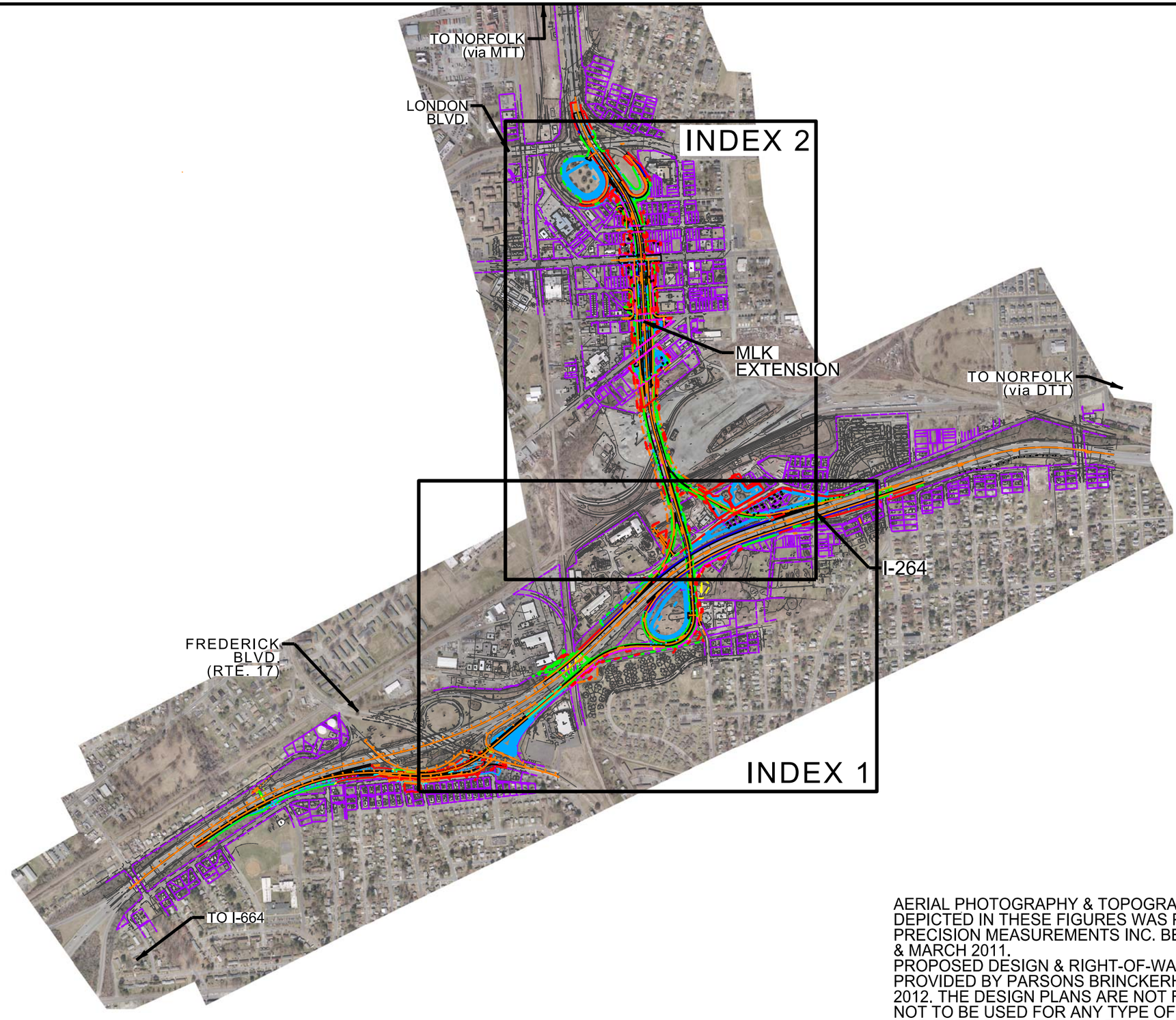



EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

**Figure 2**
**Project Location and Topography**
DTT/MTT/MLK Freeway Extension
Task 2 Hazardous Material Investigation
EEE Project Number 12-074

EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

**Figure 3**
**Aerial Photograph of Project Corridor and Surrounding Area**
DTT/MTT/MLK Freeway Extension
EEE Project Number 12-074




AERIAL PHOTOGRAPHY & TOPOGRAPHICAL SURVEY DEPICTED IN THESE FIGURES WAS PROVIDED BY PRECISION MEASUREMENTS INC. BETWEEN AUG. 2010 & MARCH 2011.
PROPOSED DESIGN & RIGHT-OF-WAY DEPICTED WAS PROVIDED BY PARSONS BRINCKERHOFF ON AUG. 17, 2012. THE DESIGN PLANS ARE NOT FINISHED & ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION NOR THE ACQUISITION OF RIGHT-OF-WAY.

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1" = 1000'
0' 1000'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 4:
MLK CORRIDOR
OVERVIEW

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\04_Overview.dgn 10/1/2012 3:34:26 PM

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\05_Index1.dgn 10/1/2012 3:39:06 PM

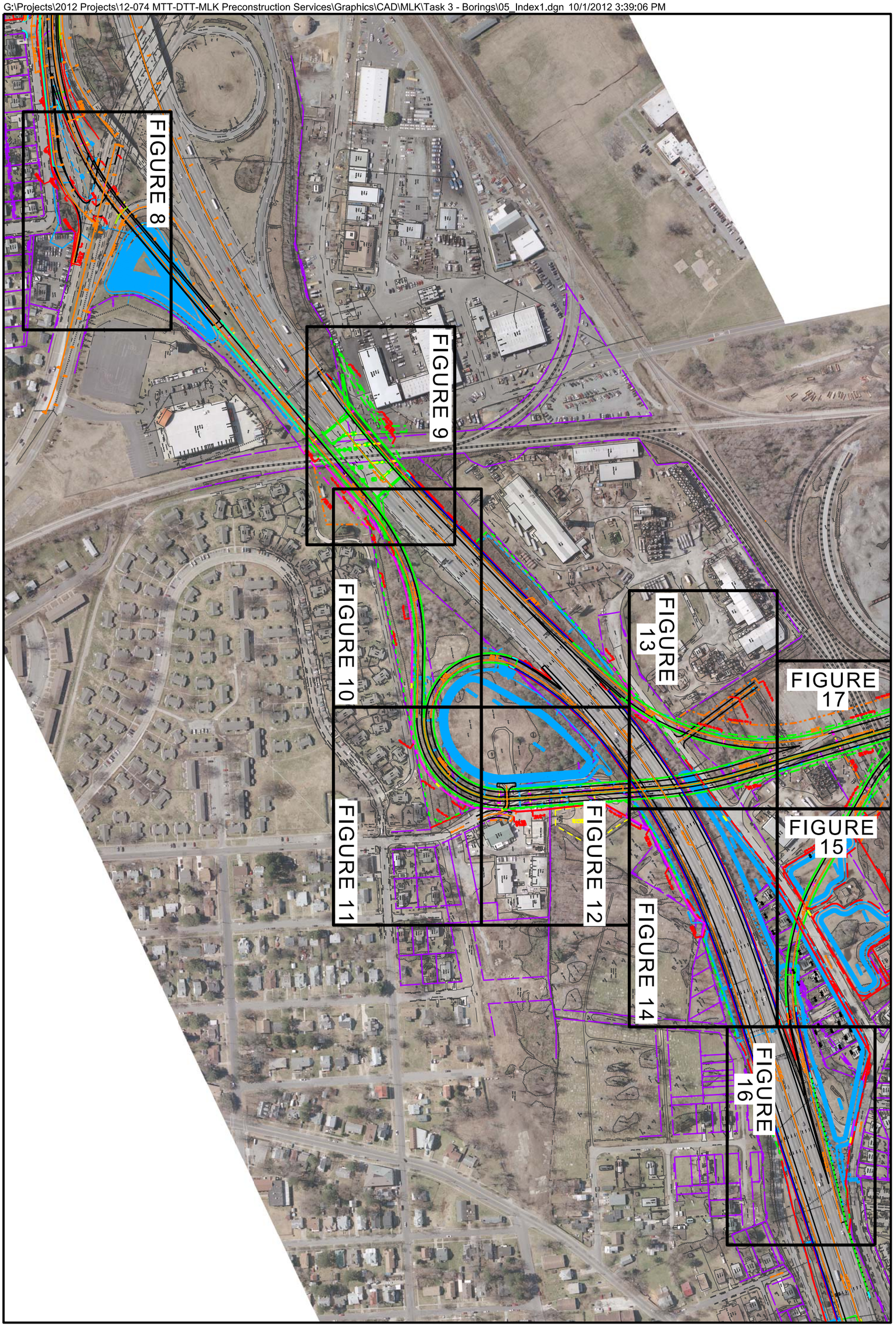



FIGURE 5:

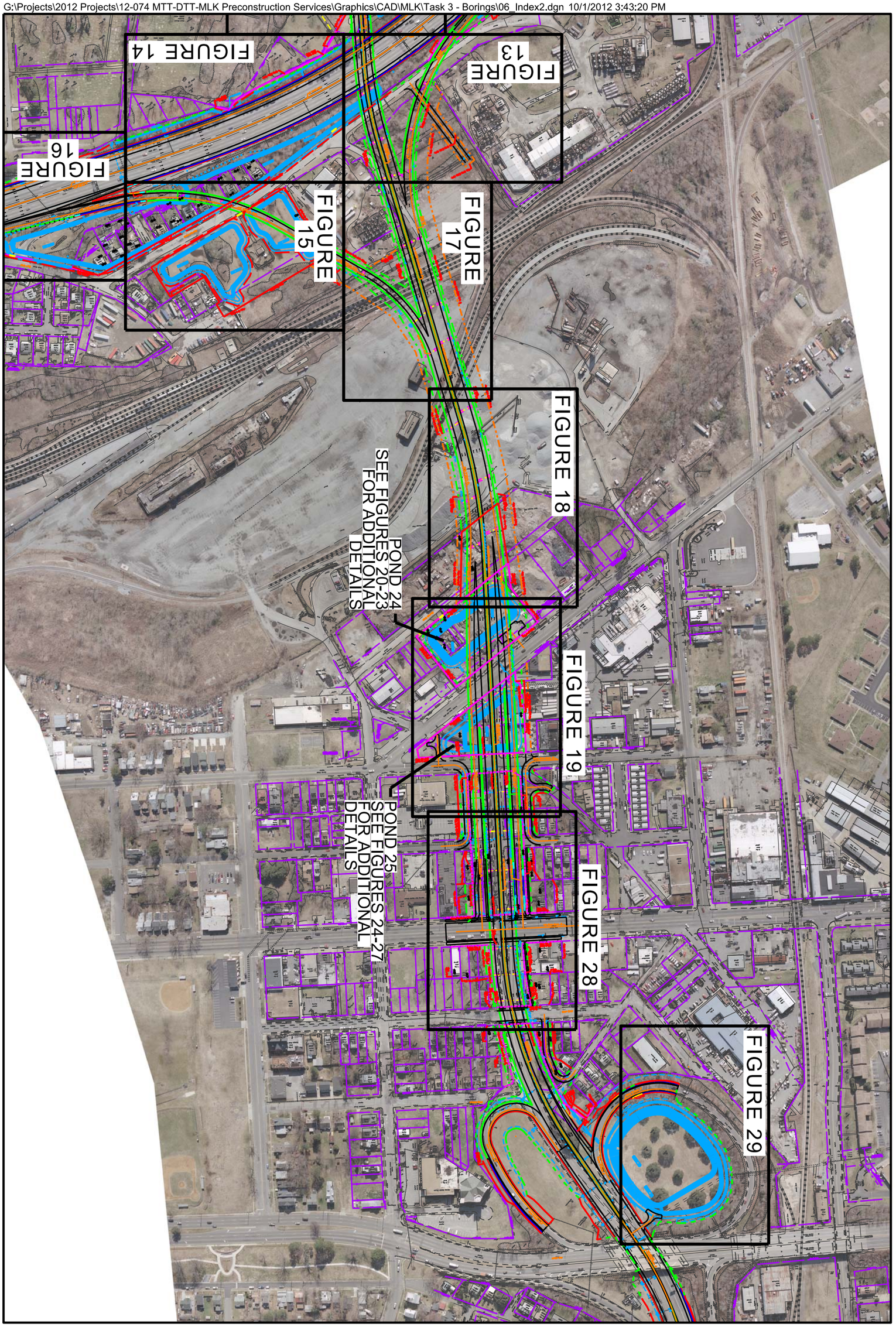
INDEX MAP 1
I-264

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

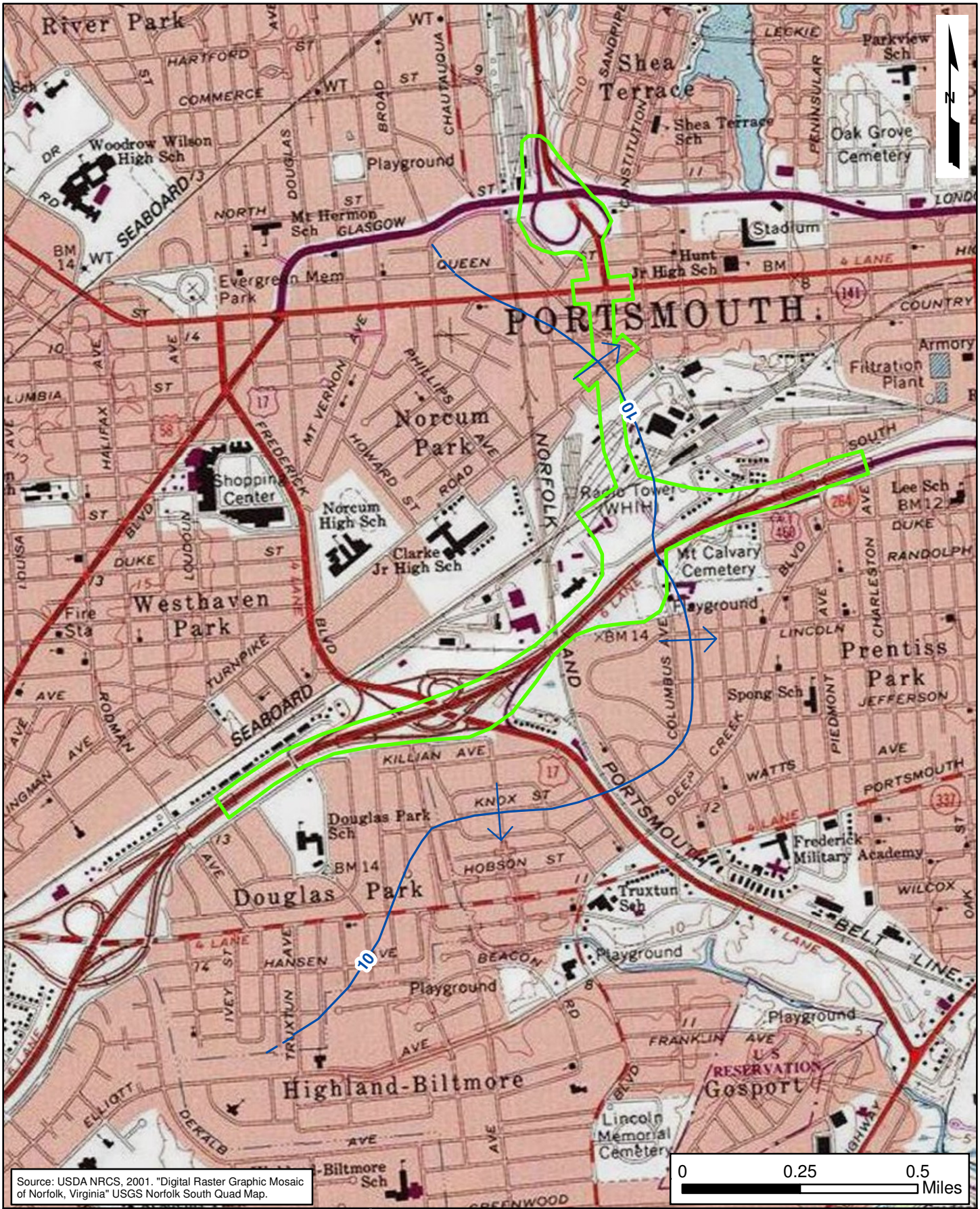
SCALE IN FEET
1' = 300'
0' 300


EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\06_Index2.dgn 10/1/2012 3:43:20 PM




| | | | |
|---|---|---|---|
| FIGURE 6:<br><br>INDEX MAP 2<br>MLK EXTENSION | DRAWN: JTL<br>DESIGN: EEE<br>DATE: OCT. 2012 | SCALE IN FEET<br>1' = 300'<br>0' 300 | 3e<br>EEE Consulting, Inc.<br>8525 Bell Creek Road<br>Mechanicsville, VA 23116 |




Source: USDA NRCS, 2001. "Digital Raster Graphic Mosaic of Norfolk, Virginia" USGS Norfolk South Quad Map.

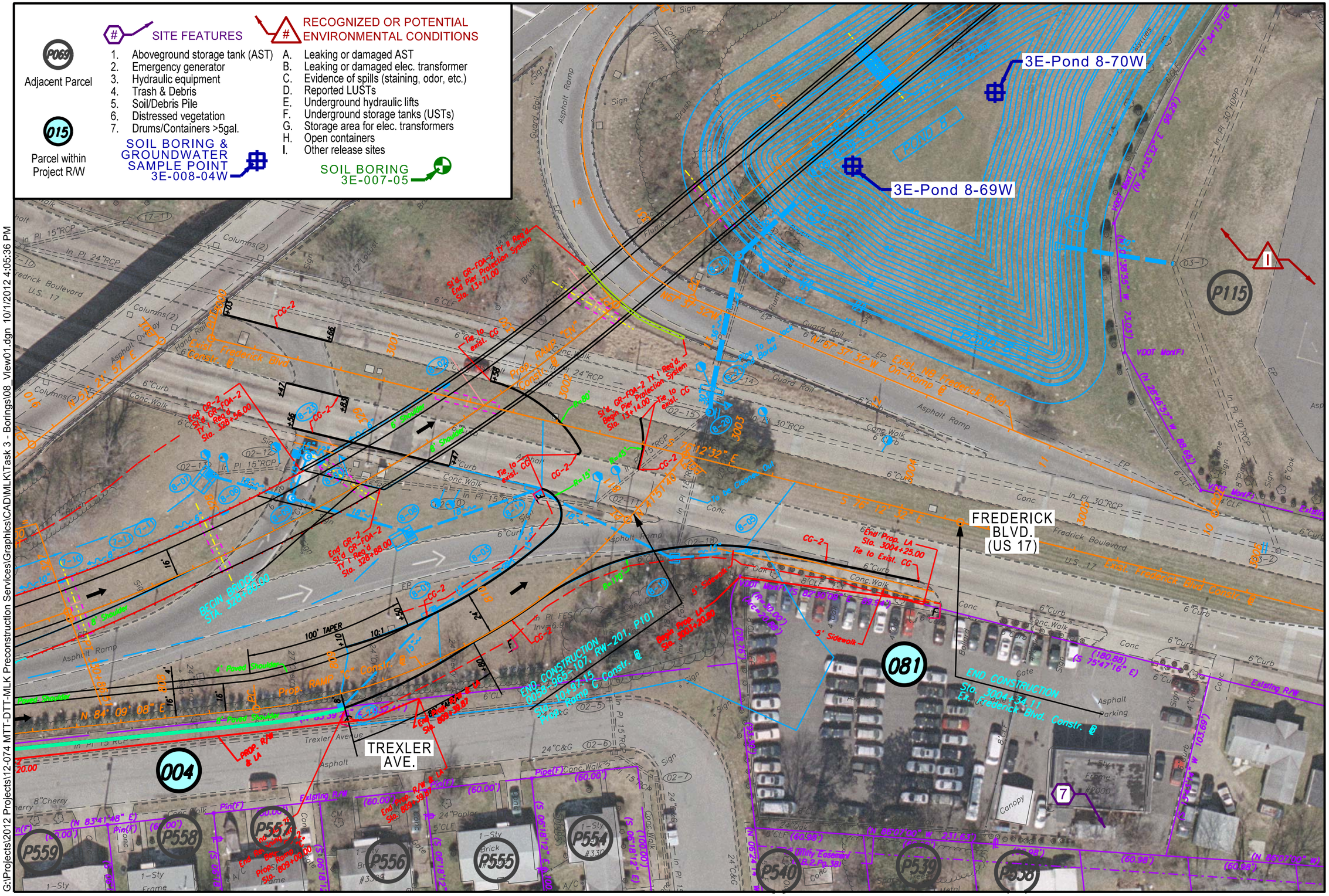
3e EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

10 Estimated Water Table Contour (ft. abv. msl)

Groundwater Flow Direction

Project Area

**Figure 7**
**Conceptual Groundwater Flow Map**
DTT/MTT/MLK Freeway Extension
Task 3
EEE Project Number 12-074



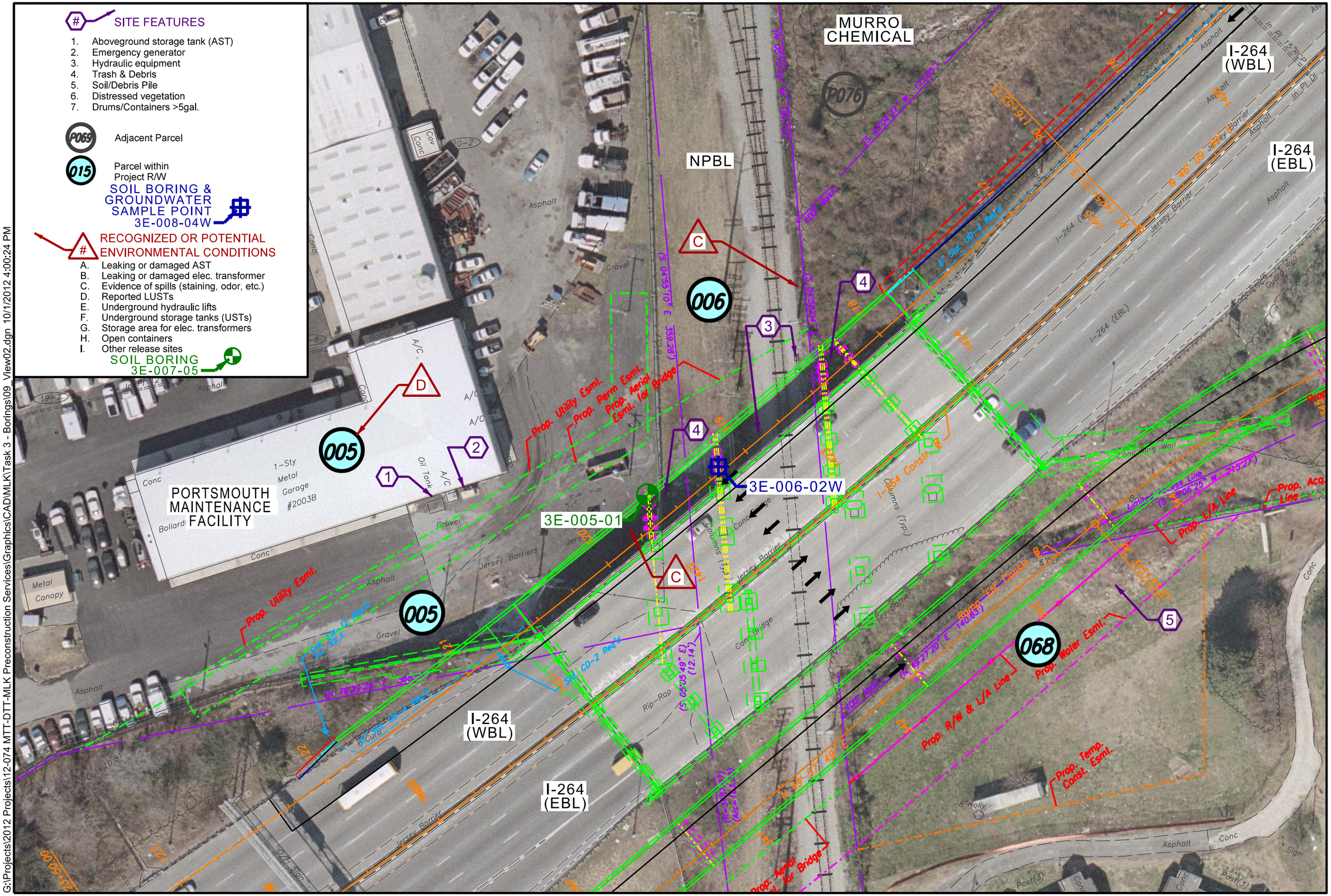

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\08_View01.dgn 10/1/2012 4:05:36 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 8
Borehole and Groundwater Sample Locations SWM Pond 8



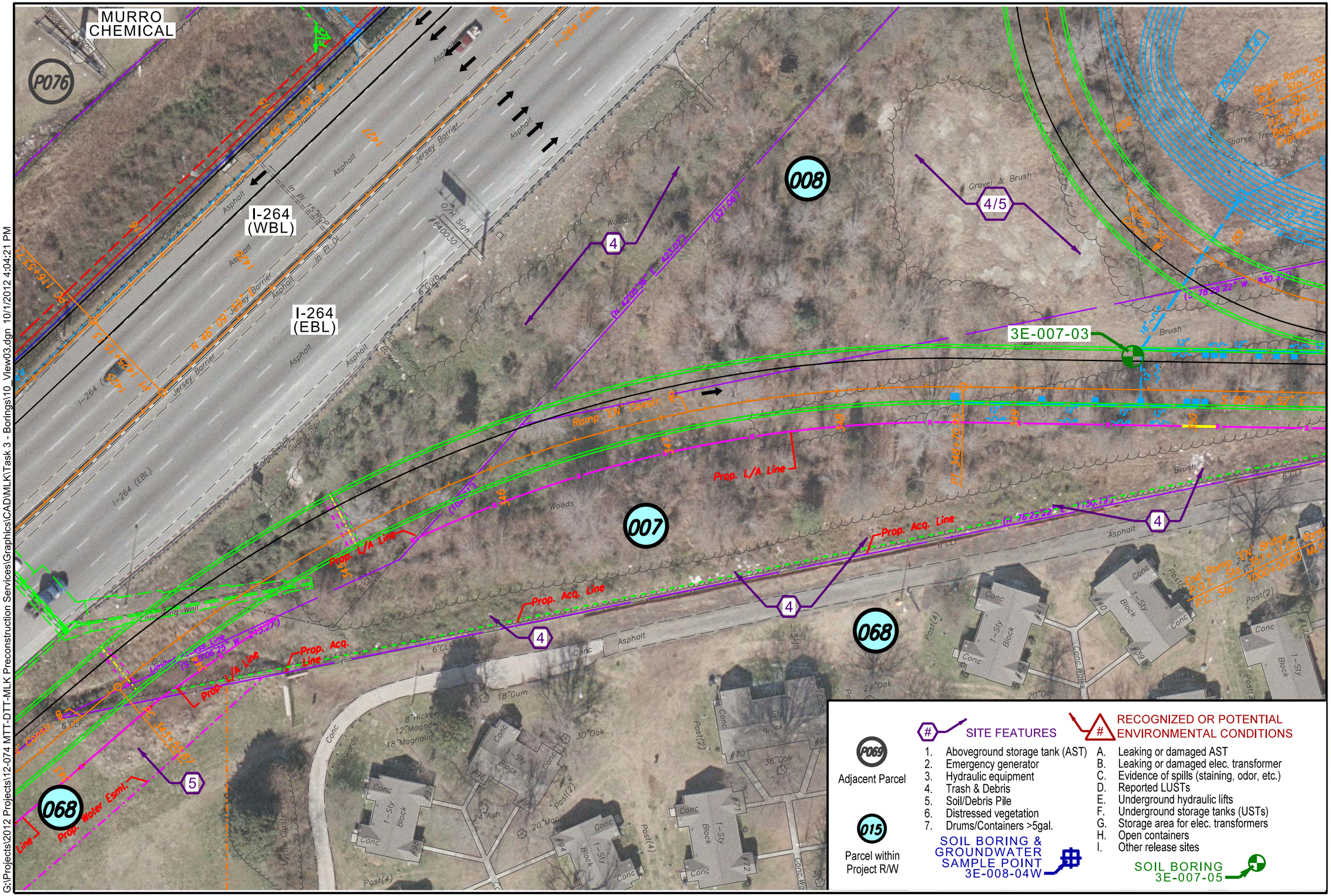

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\09_View02.dgn 10/1/2012 4:00:24 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 9:
Borehole and Groundwater Sample Locations - I-264 Bridge Over Norfolk & Portsmouth Belt




G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CADIMLK\Task 3 - Borings\10_View03.dgn 10/1/2012 4:04:21 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 10:
Borehole and Groundwater Sample Locations - Portsmouth Redevelopment and Housing Authority and SWM Pond 14

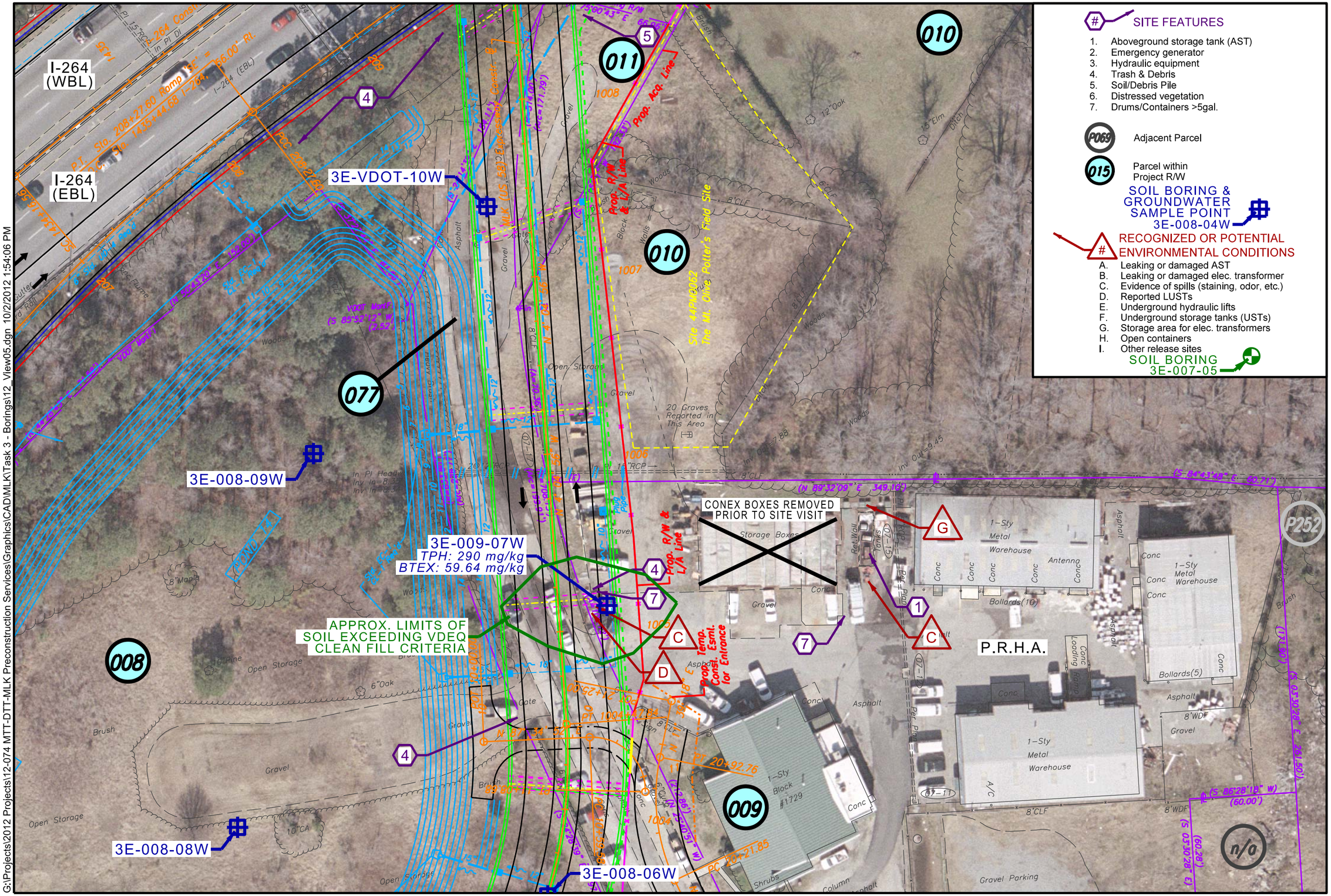
G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\11 View04.dgn 10/1/2012 4:11:19 PM

**EEE Consulting, Inc.**
**8525 Bell Creek Road**
**Mechanicsville, VA 23116**

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 11:
Borehole and Groundwater Sample Locations - Portsmouth Redevelopment and Housing Authority and SWM Pond 14




SITE FEATURES

1. Aboveground storage tank (AST)
2. Emergency generator
3. Hydraulic equipment
4. Trash & Debris
5. Soil/Debris Pile
6. Distressed vegetation
7. Drums/Containers >5gal.

P069 Adjacent Parcel

015 Parcel within Project R/W

SOIL BORING & GROUNDWATER SAMPLE POINT 3E-008-04W

RECOGNIZED OR POTENTIAL ENVIRONMENTAL CONDITIONS

A. Leaking or damaged AST
B. Leaking or damaged elec. transformer
C. Evidence of spills (staining, odor, etc.)
D. Reported LUSTs
E. Underground hydraulic lifts
F. Underground storage tanks (USTs)
G. Storage area for elec. transformers
H. Open containers
I. Other release sites

SOIL BORING 3E-007-05

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 12:
Borehole and Groundwater Sample Locations - Portsmouth Redevelopment and Housing Authority and SWM Pond 14

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\12_View05.dgn 10/2/2012 1:54:06 PM

MURRO CHEMICAL

HERC

I-264 (WBL)

I-264 (EBL)

3E-012-16

3E-012-17W

3E-VDOT-14W

3E-VDOT-13

P076

012

013

011

## SITE FEATURES

1. Aboveground storage tank (AST)
2. Emergency generator
3. Hydraulic equipment
4. Trash & Debris
5. Soil/Debris Pile
6. Distressed vegetation
7. Drums/Containers >5gal.

## RECOGNIZED OR POTENTIAL ENVIRONMENTAL CONDITIONS

A. Leaking or damaged AST
B. Leaking or damaged elec. transformer
C. Evidence of spills (staining, odor, etc.)
D. Reported LUSTs
E. Underground hydraulic lifts
F. Underground storage tanks (USTs)
G. Storage area for elec. transformers
H. Open containers
I. Other release sites

P069 Adjacent Parcel

015 Parcel within Project R/W

SOIL BORING & GROUNDWATER SAMPLE POINT 3E-008-04W

SOIL BORING 3E-007-05

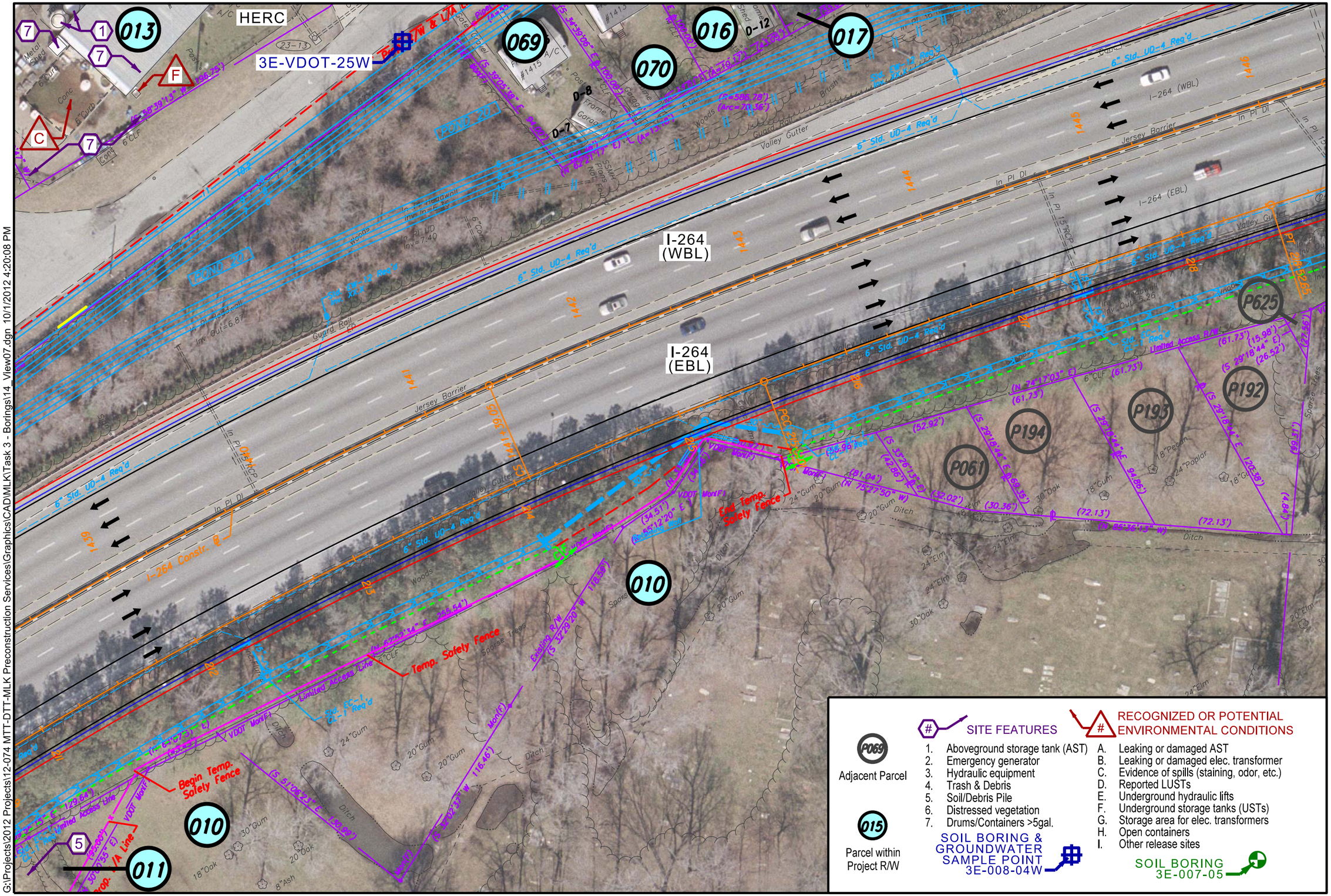
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 13:
Borehole and Groundwater Sample Locations - Ramp SW and MLK Mainline

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\13_View06.dgn 10/1/2012 4:21:31 PM




G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CADIMLK\Task 3 - Borings\14_View07.dgn 10/1/2012 4:20:08 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

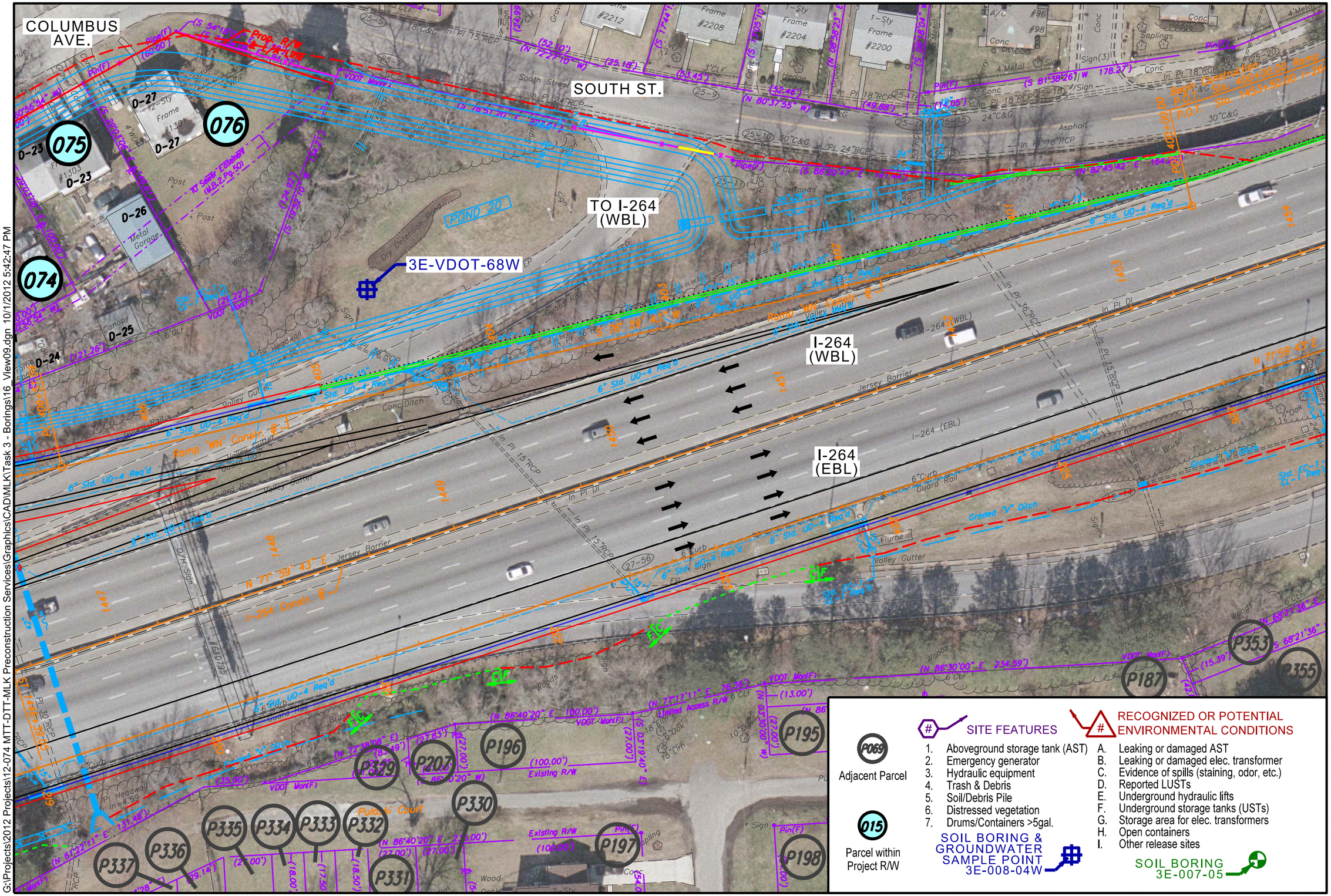
FIGURE 14:
Borehole and Groundwater Sample Locations - Ramp WM and SWM Ponds 19 and 20

**EEE Consulting, Inc.**
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 15:
Borehole and Groundwater Sample Locations - Ramp WM and SWM Ponds 19 and 20




P069 Adjacent Parcel

015 Parcel within Project R/W

SITE FEATURES

1. Aboveground storage tank (AST)
2. Emergency generator
3. Hydraulic equipment
4. Trash & Debris
5. Soil/Debris Pile
6. Distressed vegetation
7. Drums/Containers >5gal.

SOIL BORING & GROUNDWATER SAMPLE POINT 3E-008-04W

RECOGNIZED OR POTENTIAL ENVIRONMENTAL CONDITIONS

A. Leaking or damaged AST
B. Leaking or damaged elec. transformer
C. Evidence of spills (staining, odor, etc.)
D. Reported LUSTs
E. Underground hydraulic lifts
F. Underground storage tanks (USTs)
G. Storage area for elec. transformers
H. Open containers
I. Other release sites

SOIL BORING 3E-007-05

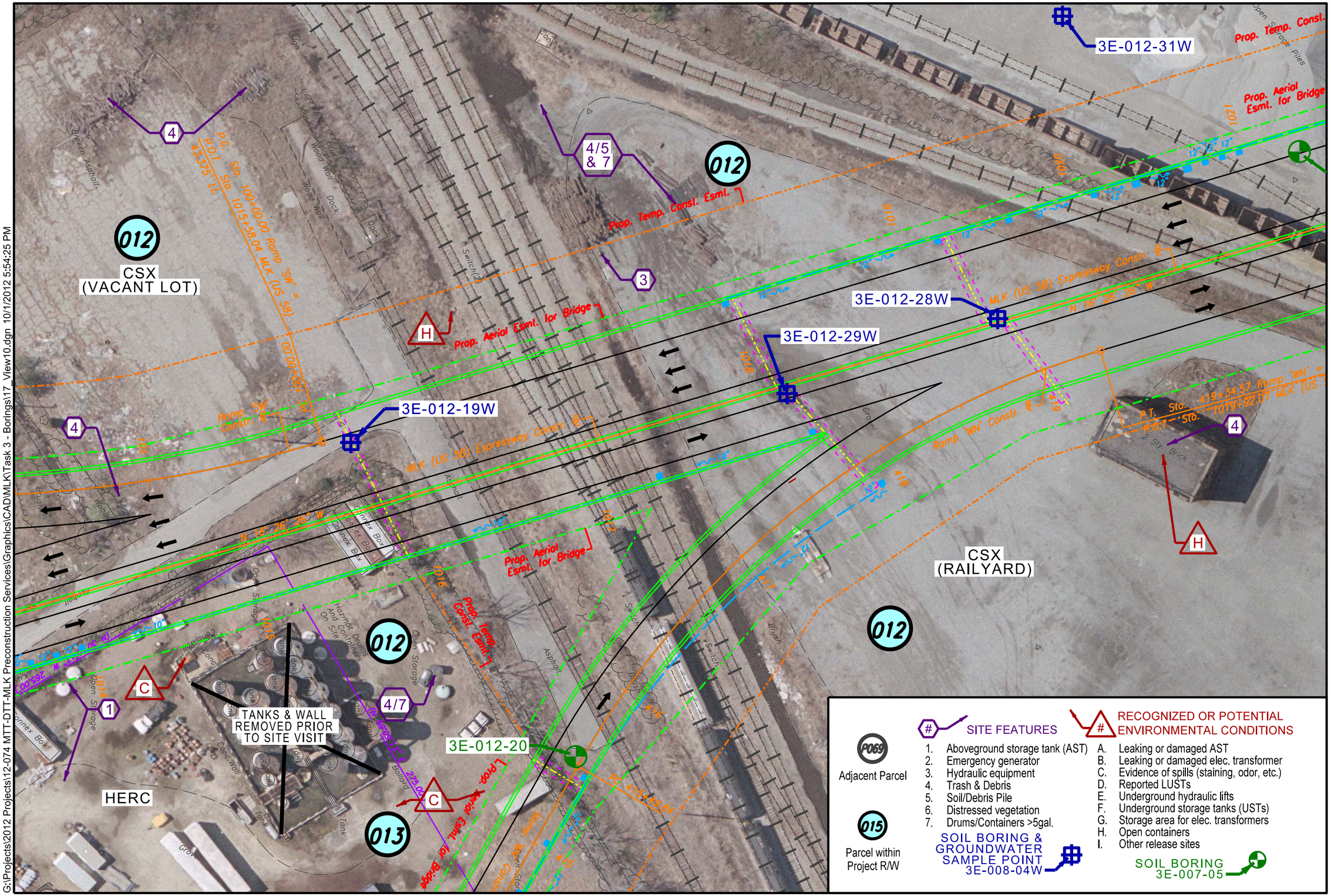
G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\16_View09.dgn 10/1/2012 5:42:47 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 16:
Borehole and Groundwater Sample Locations - Ramp WM and SWM Ponds 19 and 20



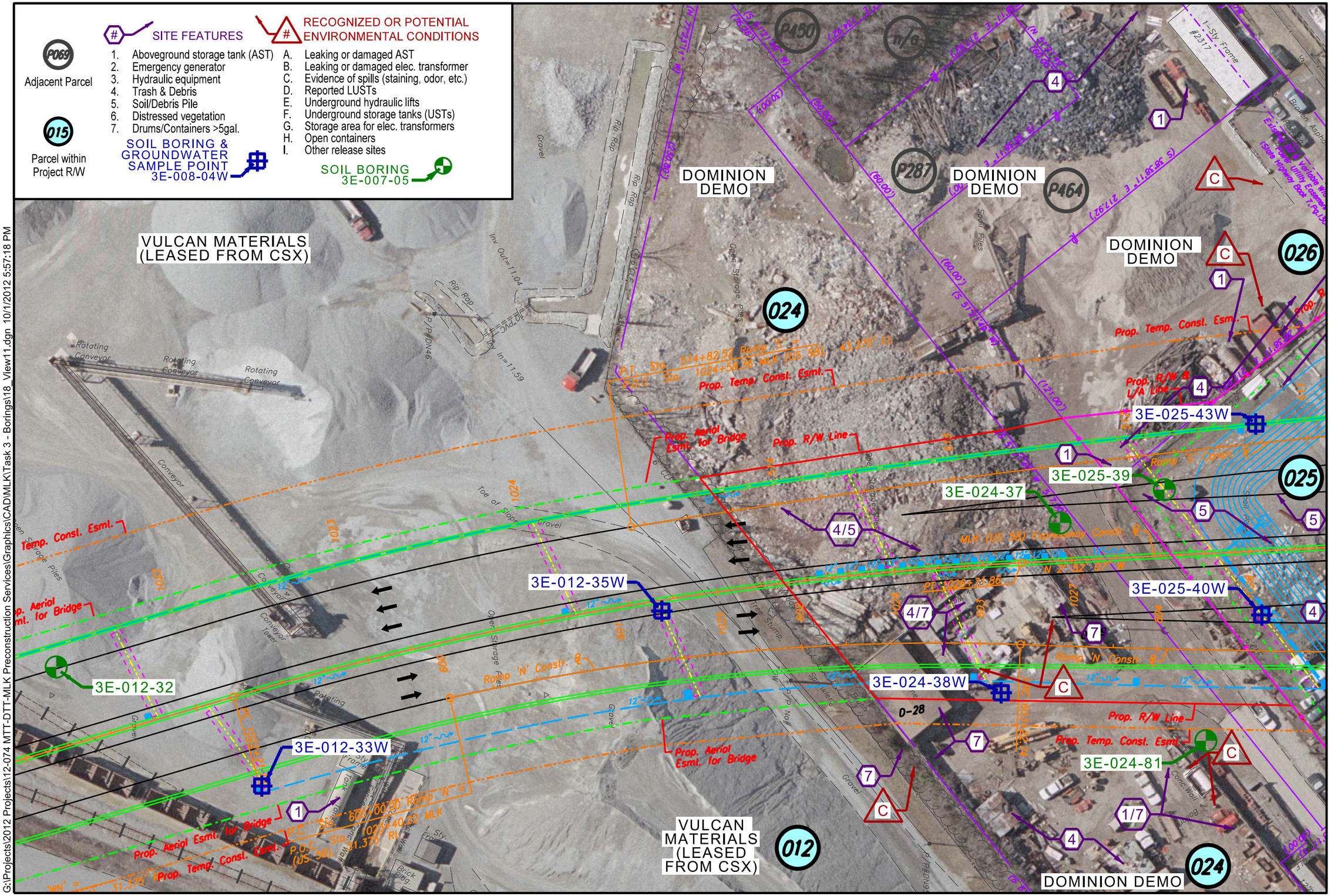

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\17_View10.dgn 10/1/2012 5:54:25 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 17:
Borehole and Groundwater Sample Locations - CSX and Vulcan Properties




G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\18_View11.dgn 10/1/2012 5:57:18 PM

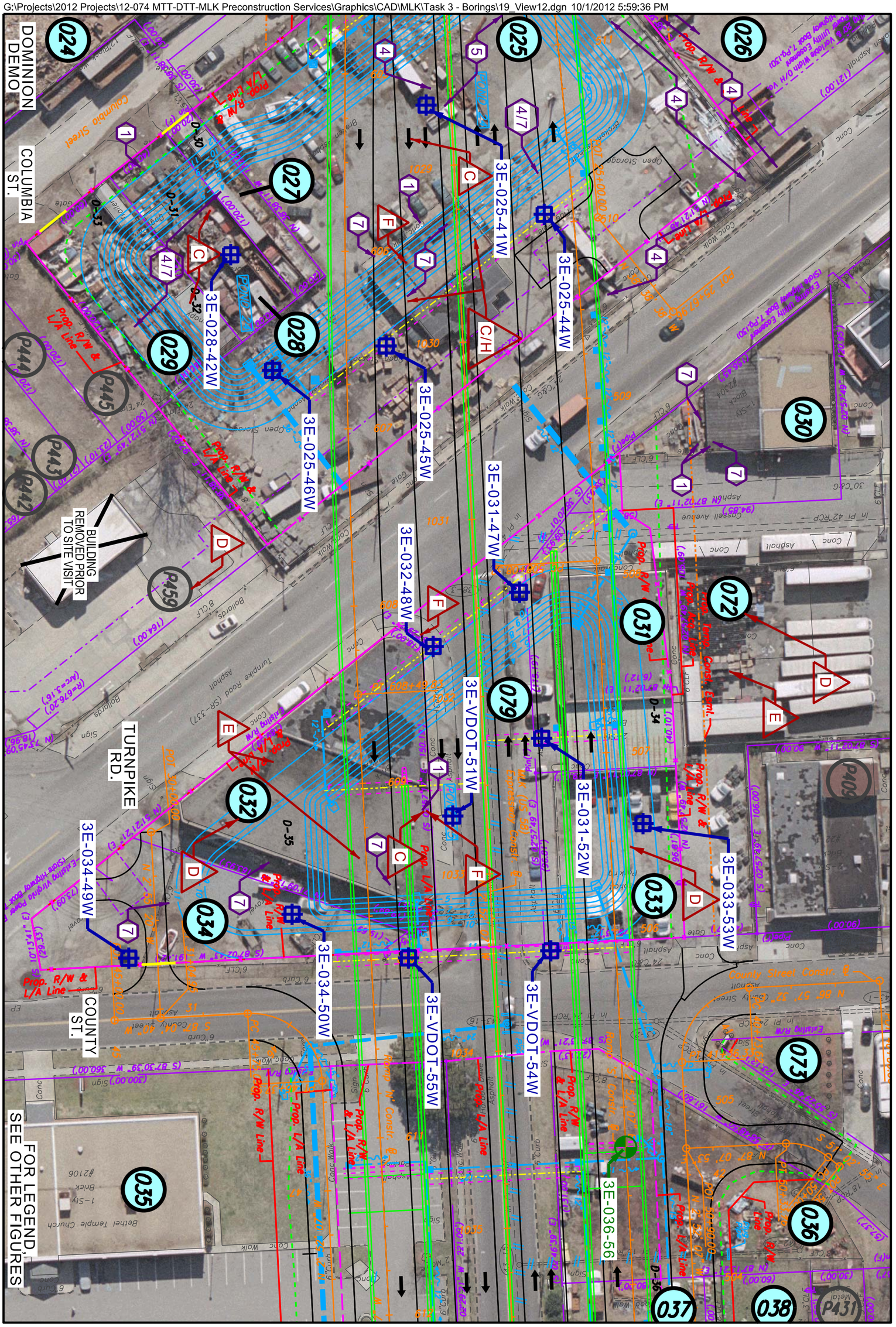
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

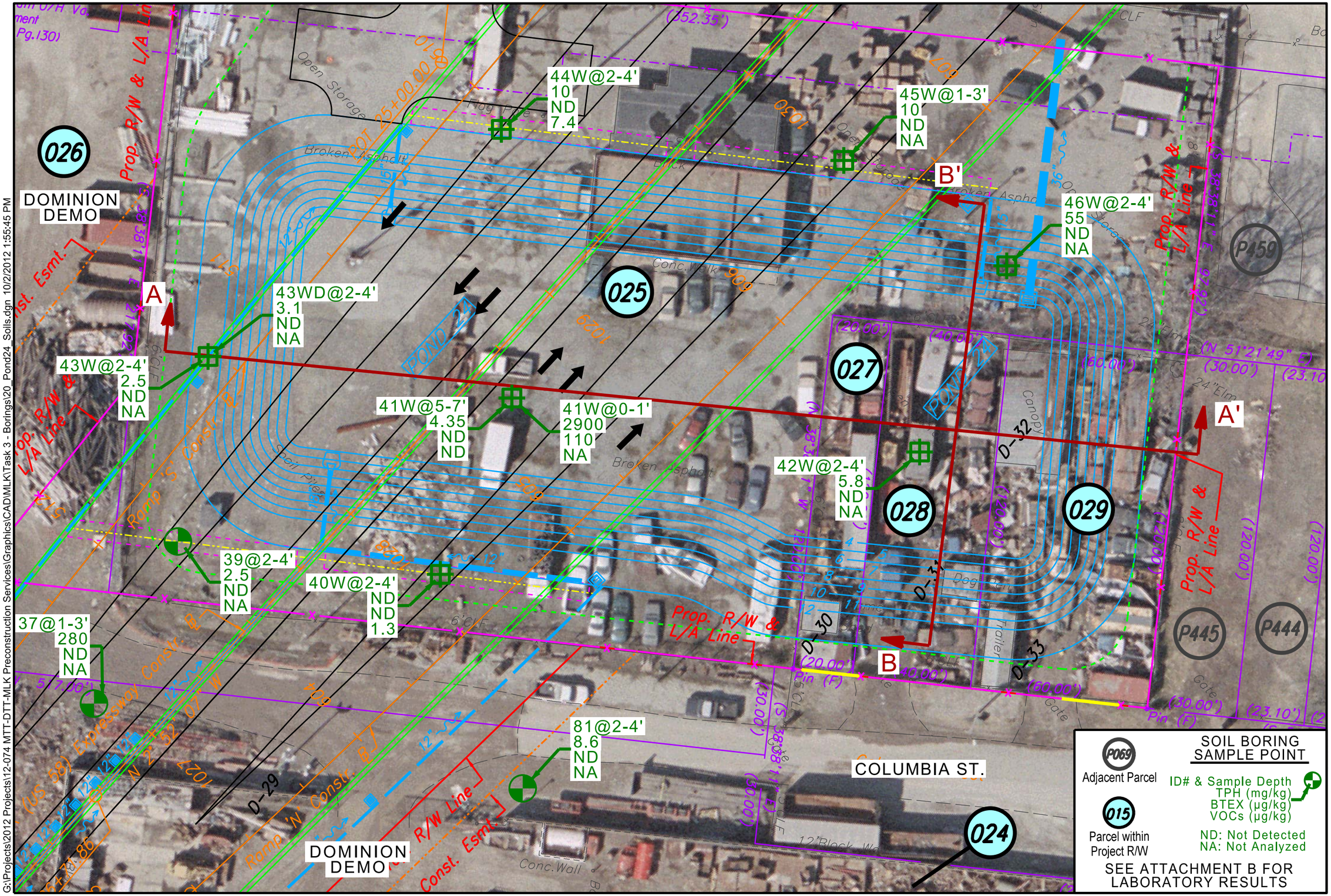
DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 18:
Borehole and Groundwater Sample Locations - CSX and Vulcan Properties and Old Dominion Demolition and SWM Pond 24

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\19_View12.dgn 10/1/2012 5:59:36 PM




| | | | |
|---|---|---|---|
| FIGURE 19: Borehole and Groundwater Sample Locations - Old Dominion Demolition and SWM Pond 24 and South Harbor Drive and SWM Pond 25 | DRAWN: JTL<br>DESIGN: EEE<br>DATE: OCT. 2012 | SCALE IN FEET<br>1' = 50'<br>0' 50' | EEE Consulting, Inc.<br>8525 Bell Creek Road<br>Mechanicsville, VA 23116 |




SOIL BORING SAMPLE POINT

P069 Adjacent Parcel

015 Parcel within Project R/W

ID# & Sample Depth
TPH (mg/kg)
BTEX (µg/kg)
VOCs (µg/kg)

ND: Not Detected
NA: Not Analyzed

SEE ATTACHMENT B FOR LABORATORY RESULTS

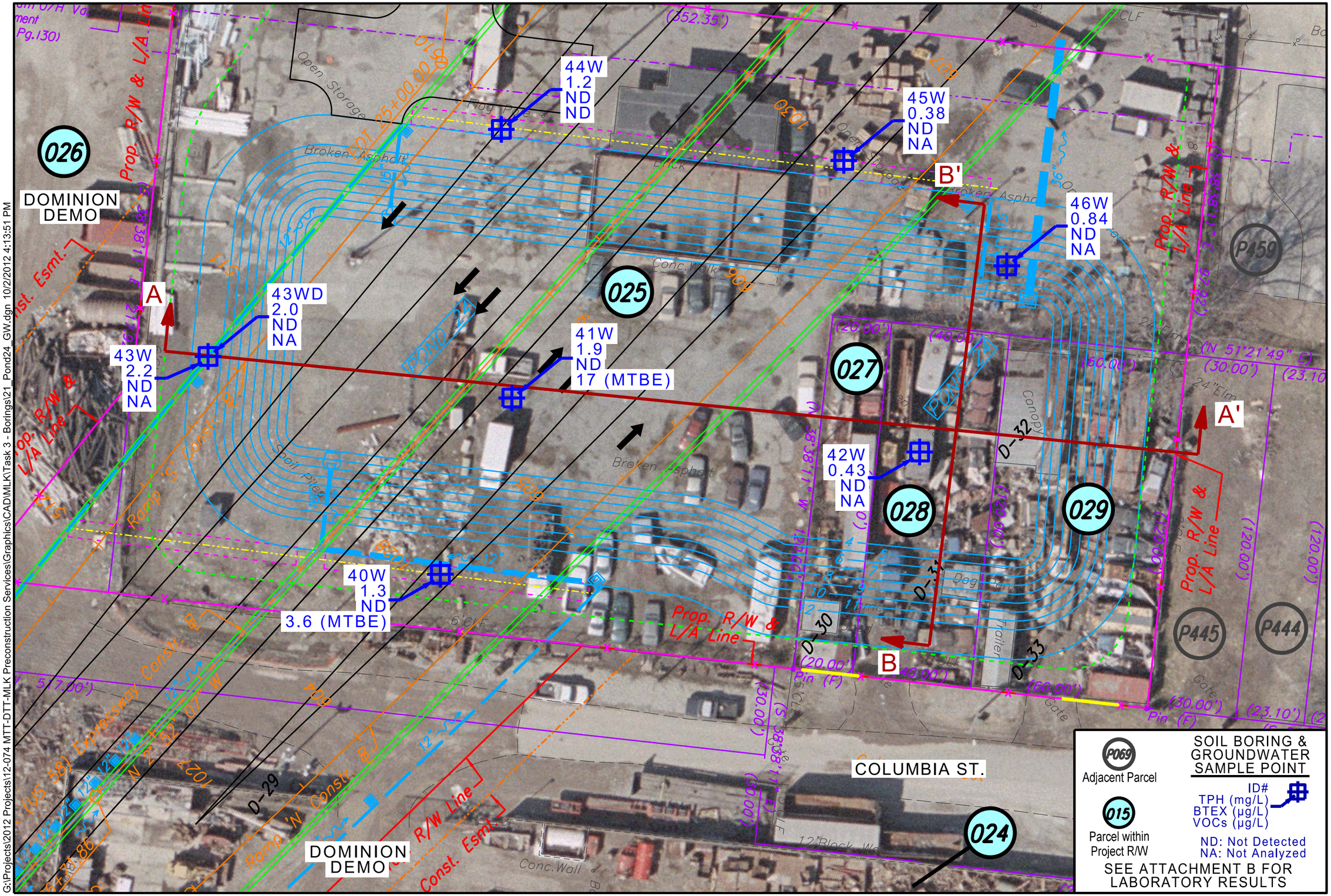
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 30'
0' 30'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 20:
SWM Pond 24
Soil Analyses

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\20_Pond24_Soils.dgn 10/2/2012 1:55:45 PM




P069 Adjacent Parcel

015 Parcel within Project R/W

SOIL BORING & GROUNDWATER SAMPLE POINT

ID#
TPH (mg/L)
BTEX (µg/L)
VOCs (µg/L)

ND: Not Detected
NA: Not Analyzed

SEE ATTACHMENT B FOR LABORATORY RESULTS

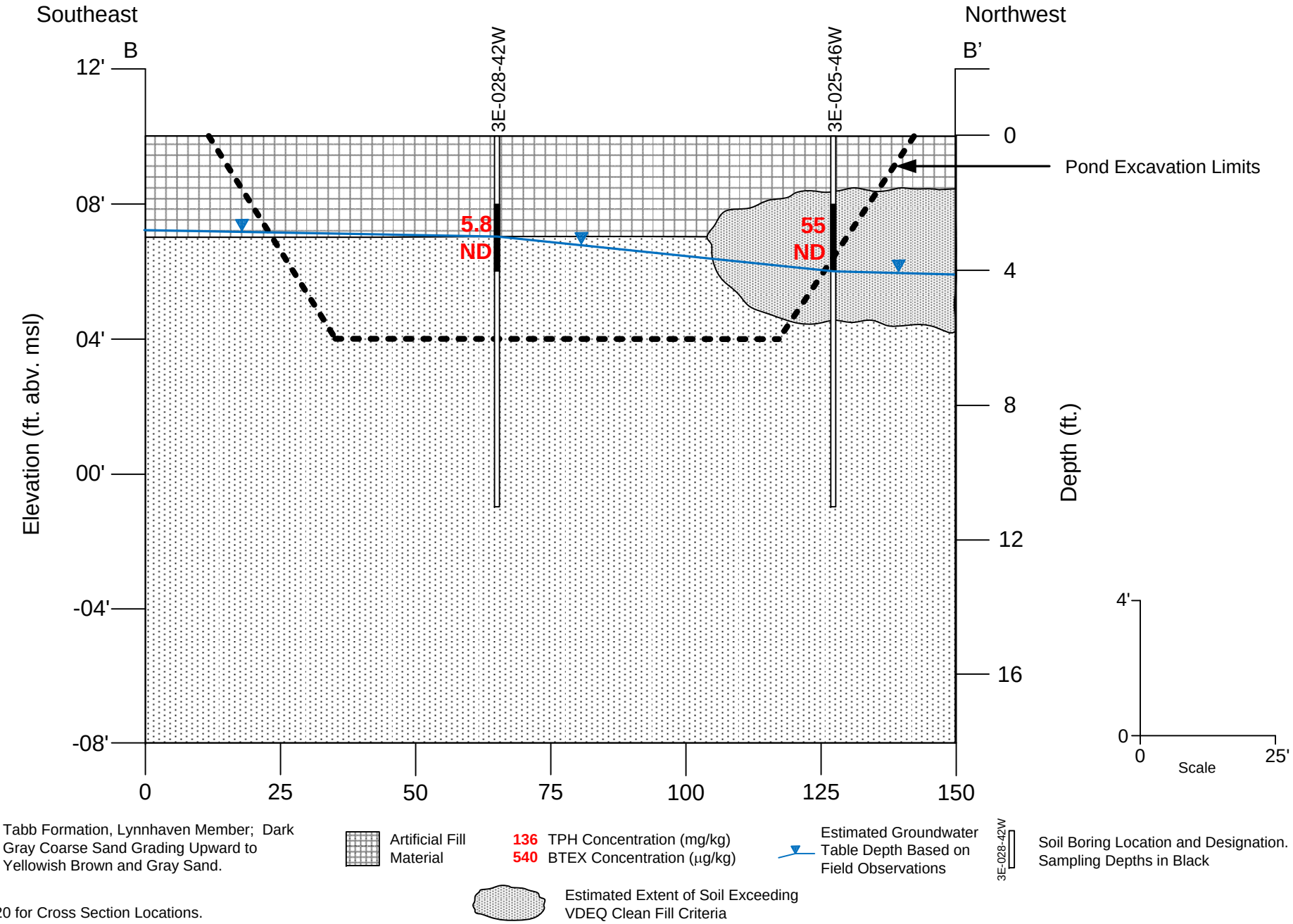
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 30'
0' 30'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 21:
SWM Pond 24
Groundwater Analyses

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\21_Pond24_GW.dgn 10/2/2012 4:13:51 PM

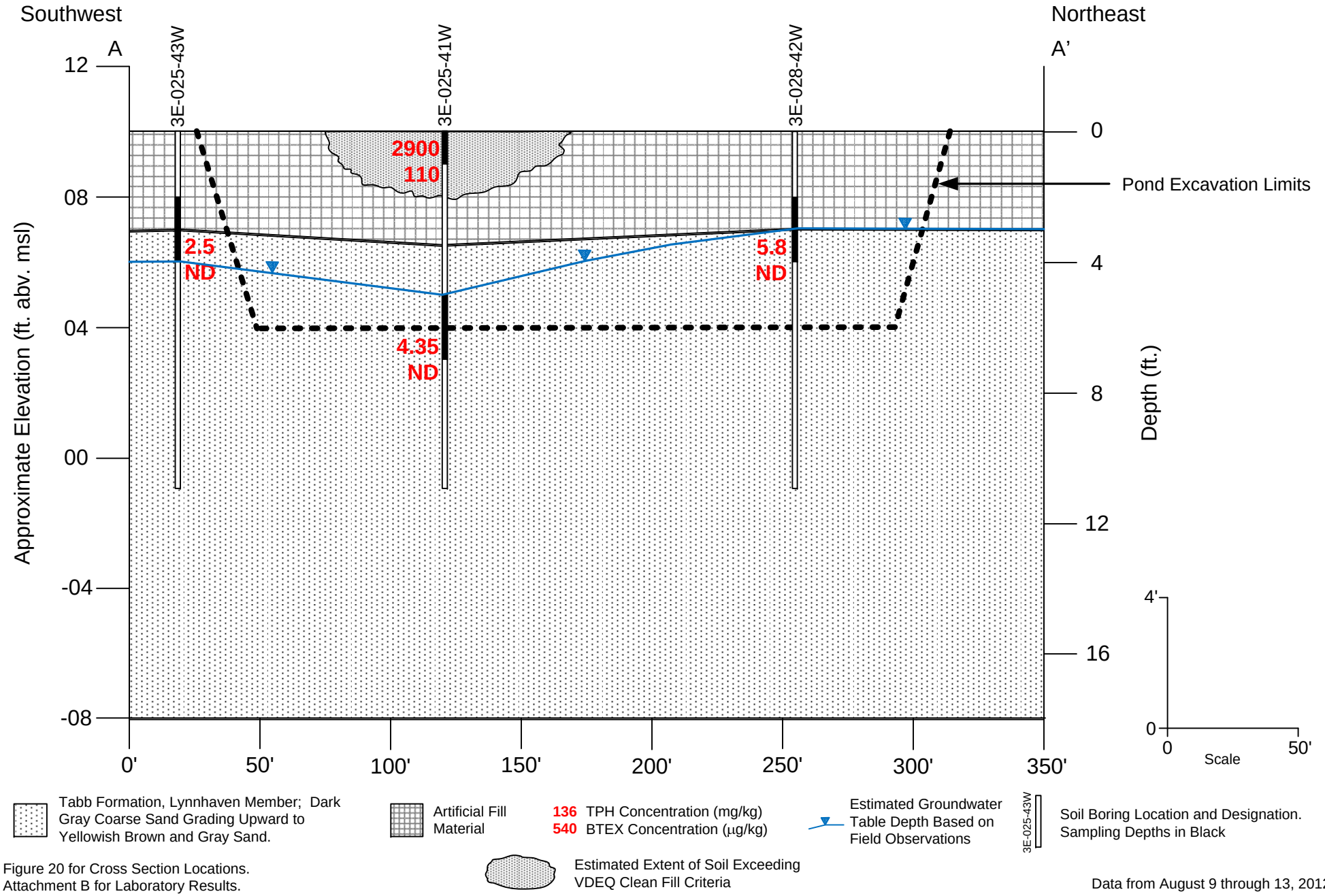



See Figure 20 for Cross Section Locations.
See Attachment B for Laboratory Results.

Data from August 9 and 13, 2012

3e EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

**FIGURE 23**
**Cross-Section B-B' - SWM POND 24**
Portsmouth, Virginia

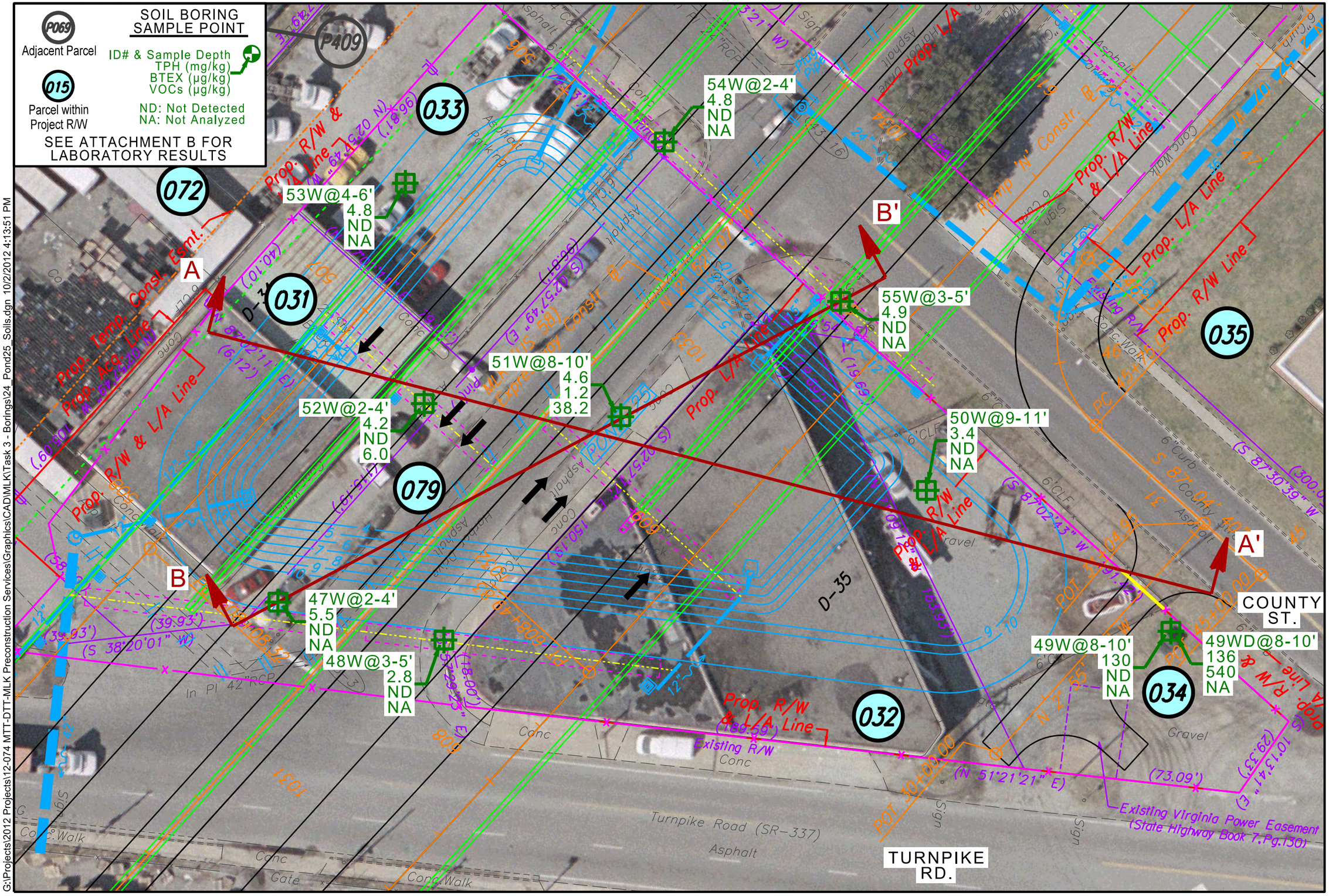



See Figure 20 for Cross Section Locations.
See Attachment B for Laboratory Results.

Data from August 9 through 13, 2012

EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

**FIGURE 22**
**Cross-Section A-A' – SWM POND 24**
Portsmouth, Virginia



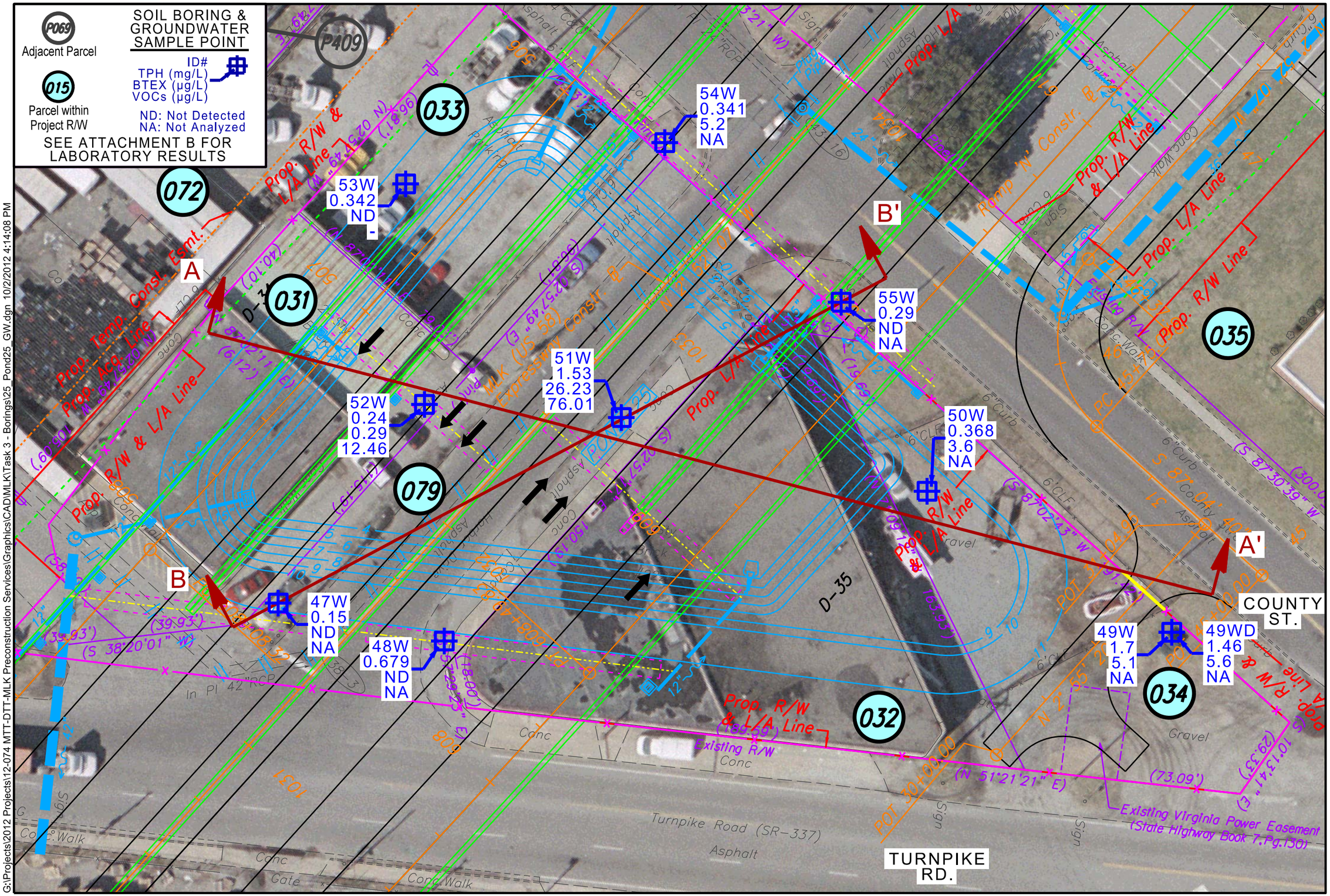

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\24_Pond25_Soils.dgn 10/2/2012 4:13:51 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 30'
0' 30'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 24:
SWM Pond 25
Soil Analyses



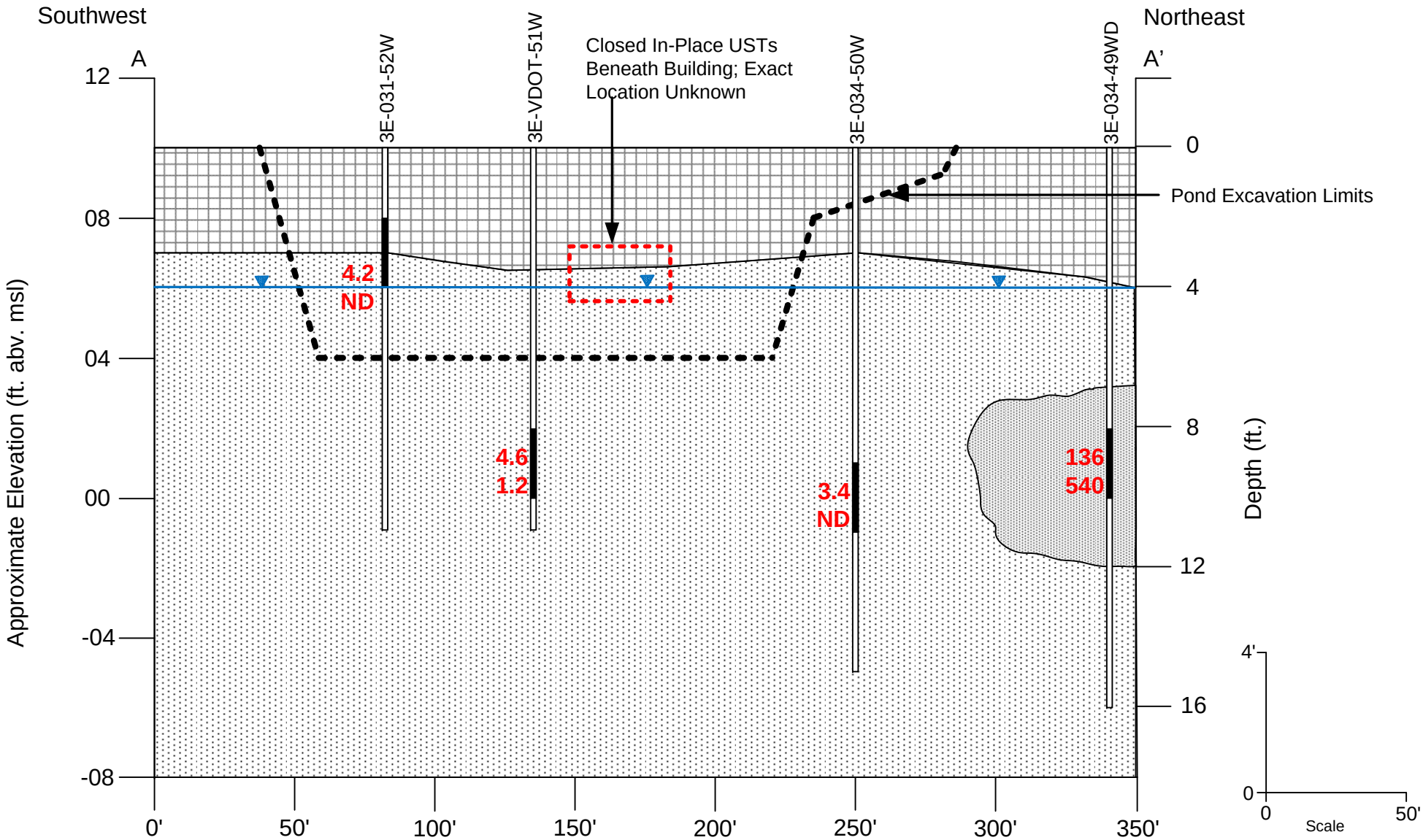

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\25_Pond25_GW.dgn 10/2/2012 4:14:08 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 30'
0' 30'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 25:
SWM Pond 25
Groundwater Analyses

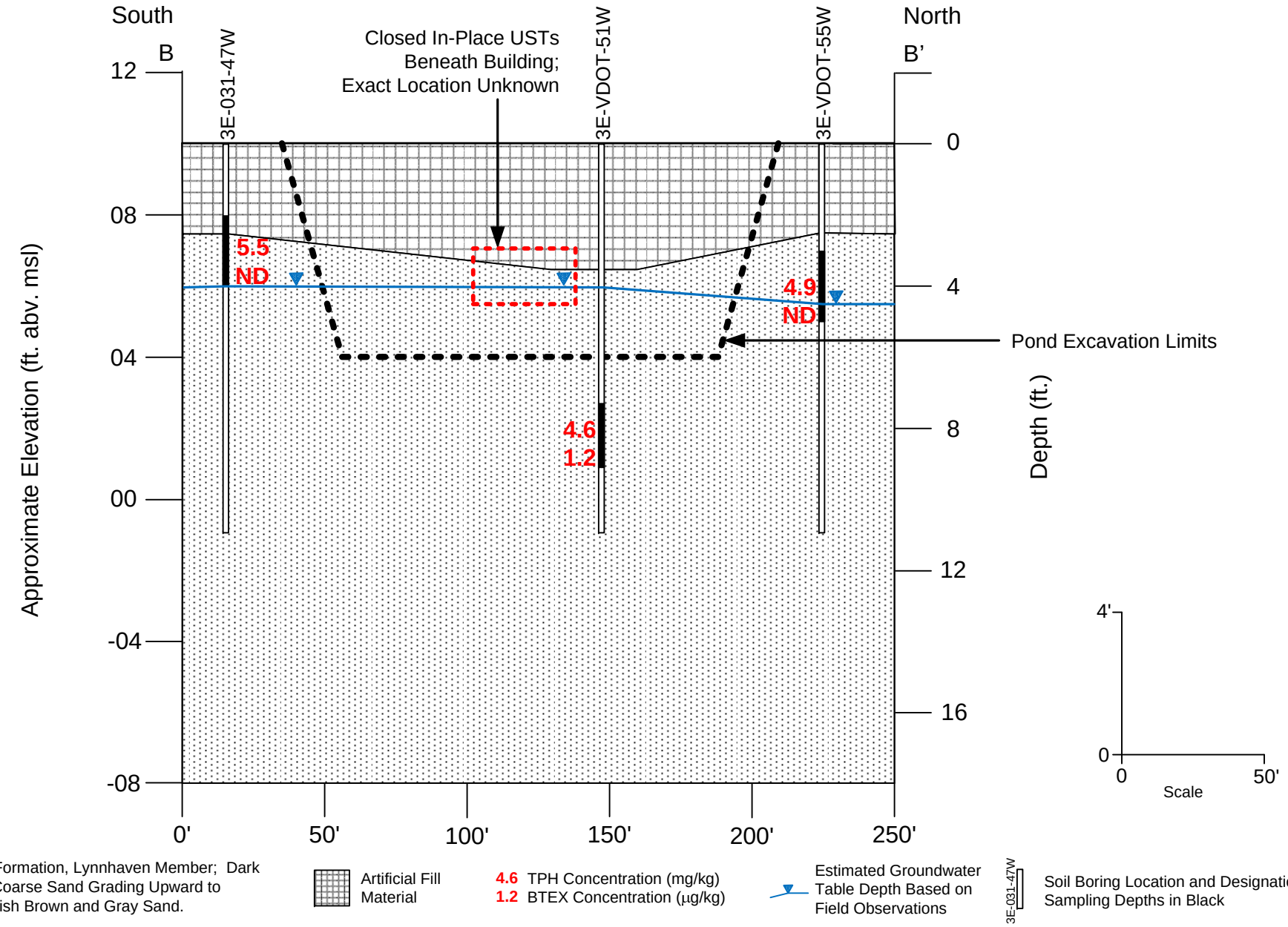



See Figure 24 for Cross Section Locations.
See Attachment B for Laboratory Results.

Data from August 13 and 14, 2012

EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

**FIGURE 26**
**Cross-Section A-A' – SWM Pond 25**
Portsmouth, Virginia




Tabb Formation, Lynnhaven Member; Dark Gray Coarse Sand Grading Upward to Yellowish Brown and Gray Sand.

Artificial Fill Material

4.6 TPH Concentration (mg/kg)
1.2 BTEX Concentration (µg/kg)

Estimated Groundwater Table Depth Based on Field Observations

3E-031-47W Soil Boring Location and Designation. Sampling Depths in Black

See Figure 24 for Cross Section Locations.
See Attachment B for Laboratory Results.

Data from August 13 and 14, 2012

3e EEE Consulting, Inc.
Environmental, Engineering and Educational Solutions

**FIGURE 27**
**Cross-Section B-B' - SWM Pond 25**
Portsmouth, Virginia

G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\28_View13.dgn 10/1/2012 6:17:05 PM

## SITE FEATURES

1. Aboveground storage tank (AST)
2. Emergency generator
3. Hydraulic equipment
4. Trash & Debris
5. Soil/Debris Pile
6. Distressed vegetation
7. Drums/Containers >5gal.

P069 Adjacent Parcel

015 Parcel within Project R/W

SOIL BORING & GROUNDWATER SAMPLE POINT 3E-008-04W

## RECOGNIZED OR POTENTIAL ENVIRONMENTAL CONDITIONS

A. Leaking or damaged AST
B. Leaking or damaged elec. transformer
C. Evidence of spills (staining, odor, etc.)
D. Reported LUSTs
E. Underground hydraulic lifts
F. Underground storage tanks (USTs)
G. Storage area for elec. transformers
H. Open containers
I. Other release sites

SOIL BORING 3E-007-05

3E-037-57
3E-VDOT-59
3E-046-61
3E-059-65
3E-054-62
3E-054-63

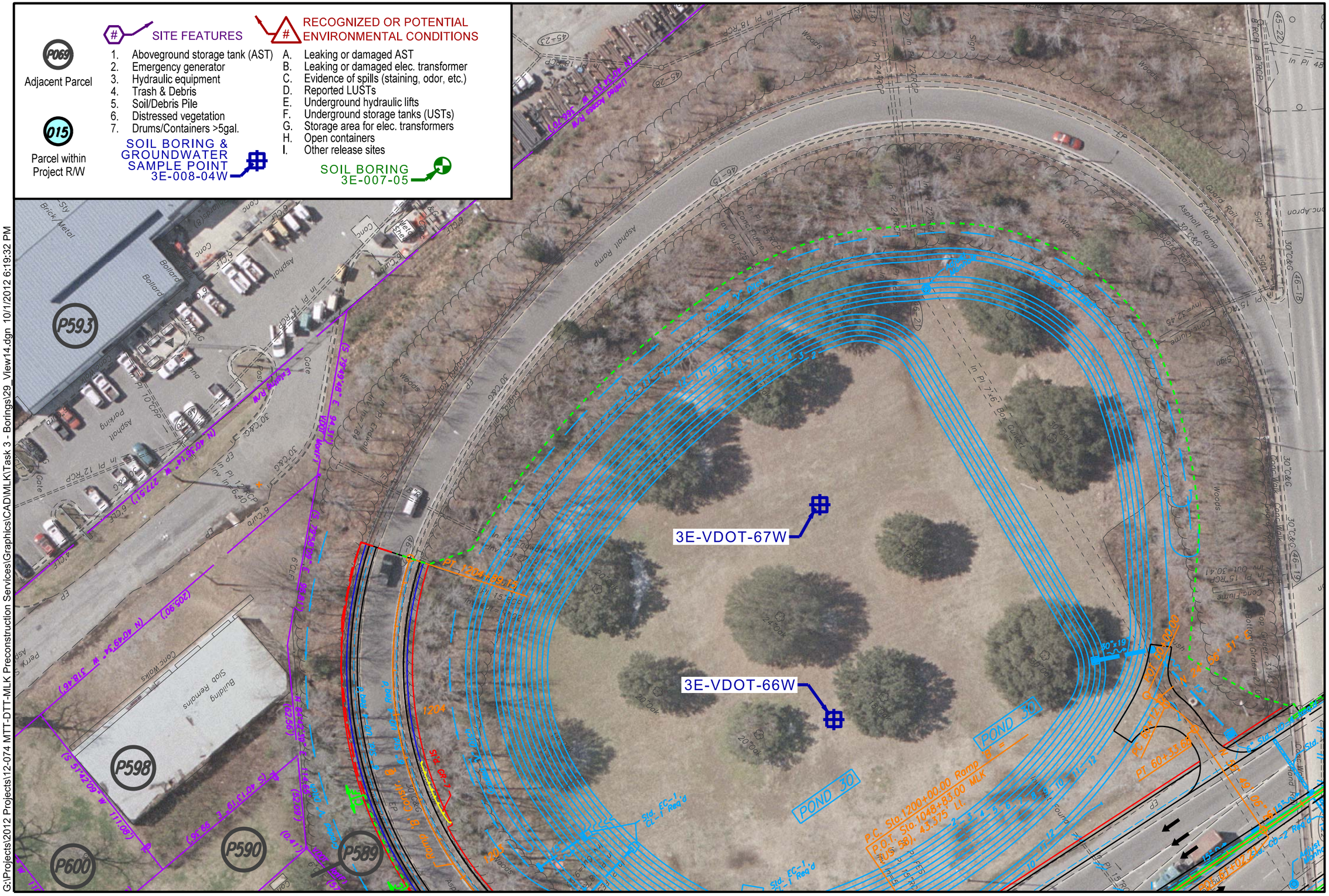
KING ST.
HIGH ST.
QUEEN ST.

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 28:
Borehole and Groundwater Sample Locations - North Harbor Drive and SWM Pond 30

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116




G:\Projects\2012 Projects\12-074 MTT-DTT-MLK Preconstruction Services\Graphics\CAD\MLK\Task 3 - Borings\29_View14.dgn 10/1/2012 6:19:32 PM

EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, VA 23116

SCALE IN FEET
1' = 50'
0' 50'

DRAWN: JTL
DESIGN: EEE
DATE: OCT. 2012

FIGURE 29:
Borehole and Groundwater Sample Locations - North Harbor Drive and SWM Pond 30

# ATTACHMENTS

# ATTACHMENT A

# BORING LOGS

# ATTACHMENT A BORING LOGS

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-005-01**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger & Jay Lemmerman | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravelly, Flat |
| DRILLING DATE: | 8/9/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Asphalt Millings | 1 | 90 | 0.0 | PID Background = 0.3 ppm |
| 2 | Sandy Silt. 1 - 3 ft. Dark Gray. 3 - 4 ft. Gray. | | | 0.3 | |
| 3 | | | | 0.9 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 2.1 | |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 100 | 1.4 | Groundwater encountered at 4 ft. |
| 6 | Silty Sand. 4 - 6 ft. Dark Gray. | | | 1.6 | |
| 7 | Coarse Sand. 6 - 9 ft. Dark Gray. 9 - 11 ft. Light Gray. | | | 0.9 | No petroleum odors observed. |
| 8 | | | | 0.7 | |
| 9 | | 3 | 75 | 1.1 | |
| 10 | | | | 1.1 | |
| 11 | | | | 0.1 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-006-02W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | vegetated, flat |
| DRILLING DATE: | 8/28/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | TEST RESULTS PERCENT RECOVERY | TEST RESULTS PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravelly Sand 0 - 2 ft. Dark Brown | 1 | 75 | 0.7 | PID Background = 2.2 ppm |
| 2 | Sandy Silt. 2 - 3.5 ft. Grayish Brown. | | | 0.9 | **Soil Sample collected from 1 - 3 ft.** |
| 3 | | | | 1.3 | |
| 4 | | | | 3.3 | Groundwater encountered at 3 ft. |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 75 | 2.2 | |
| 6 | Coarse Sand. 3.5 - 4.5 ft. Grayish Brown. 4.5 - 9.0 ft. Yellowish Brown and Gray. 9.0 - 11.0 ft. Gray. | | | 1.5 | |
| 7 | | | | 2.1 | No petroleum odors observed. |
| 8 | | | | 3.1 | |
| 9 | | 3 | 75 | 2.4 | |
| 10 | | | | 1.0 | |
| 11 | | | | 1.3 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-007-03**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger & Jay Lemmerman | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Edge of Woods, Flat |
| DRILLING DATE: | 8/7/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS | | | COMMENTS |
|---|---|---|---|---|---|
| | | RUN | PERCENT RECOVERY | PID READINGS (PPM) | |
| 1 | **Topsoil -** Sandy Silt. 0 - 1.5 ft. Dark Brown. | 1 | 100 | 0.0 | PID Background = 0.5 ppm |
| 2 | Sandy Clayey Silt. 1.5 - 3 ft. Gray with Grayish Brown mottles. | | | 0.3 | |
| 3 | | | | 0.9 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 2.1 | |
| 5 | Coarse Sand. 3 - 5 ft. Grayish Brown. 5 - 6 ft. Grayish Brown with Yellowish Brown mottles. 6 - 11 ft. Gray. | 2 | 75 | 1.4 | Groundwater encountered at 4 ft. |
| 6 | | | | 1.6 | |
| 7 | | | | 0.9 | No petroleum odors observed. |
| 8 | | | | 0.7 | |
| 9 | | 3 | 75 | 1.1 | |
| 10 | | | | 1.1 | |
| 11 | | | | 0.1 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-008-04W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | ATV-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Wooded, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Silty Sand 0 - 1.5 ft. Dark Brown and Black | 1 | 100 | 3.4 | PID Background = 1.8 ppm |
| 2 | | | | 3.4 | |
| 3 | **Tabb Formation; Lynnhaven Member -** | | | 3.5 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | Sandy Clayey Silt. 1.5 - 2.5 ft. Gray. | | | 3.9 | |
| 5 | Sandy Silt. 2.5 - 3.0 ft. Gray. | 2 | 80 | 9.1 | Groundwater encountered at 4 ft. |
| 6 | Coarse Sand. 3.0 - 4.0 ft. Gray. 4.0 - 10.0 ft. Yellowish Brown and Gray. 10.0 - 11.0 ft. Dark Gray. | | | 8.2 | |
| 7 | | | | 6.4 | No petroleum odors observed. |
| 8 | | | | 5.7 | |
| 9 | | 3 | 75 | 4.0 | |
| 10 | | | | 2.9 | |
| 11 | | | | 1.8 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Boring was completed as a 1.25 inch I.D. temporary monitoring well using a 10 ft. section of 0.10 slotted PVC well screen. A groundwater sample was collected from the boring using a dedicated 1/2 inch O.D. polyethylene bailer.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-007-05**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger & Jay Lemmerman | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Edge of Woods, Flat |
| DRILLING DATE: | 8/7/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Asphalt. 0 - 1.0 ft. | 1 | 100 | 0.5 | PID Background = 0.5 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 2.0 ft. Dark Gray and Black. | | | 0.5 | |
| 3 | **Tabb Formation; Lynnhaven Member -** | | | 0.9 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | Sandy Silt. 2.0 - 3.5 ft. Gray. | | | 0.5 | |
| 5 | Coarse Sand. 3.5 - 7 ft. Gray. 7 - 11 ft. Dark Gray. | 2 | 100 | 0.8 | Groundwater encountered at 4 ft. |
| 6 | | | | 1.0 | |
| 7 | | | | 1.0 | No petroleum odors observed. |
| 8 | | | | 1.0 | |
| 9 | | 3 | 75 | 0.6 | |
| 10 | | | | 0.4 | |
| 11 | | | | 0.3 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-008-06W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Vegetated, Flat |
| DRILLING DATE: | 8/8/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravelly Sand 0 - 4 ft. Gray and Yellow Brown | 1 | 50 | 1.2 | PID Background = 0.3 ppm |
| 2 | | | | 0.6 | |
| 3 | | | | 0.2 | |
| 4 | | | | 0.2 | |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 100 | 0.6 | Groundwater encountered at 6 ft. |
| 6 | Coarse Sand. 4.0 - 11.0 ft. Gray. | | | 1.0 | **Soil Sample collected from 5 - 7 ft.** |
| 7 | | | | 10.6 | |
| 8 | | | | 1.0 | Faint petroleum odors observed in soil from 5 to 7 ft. |
| 9 | | 3 | 75 | 0.6 | |
| 10 | | | | 0.6 | |
| 11 | | | | 0.6 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-009-07W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Gravel |
| DRILLING DATE: | 8/8/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravel and Silty Clayey Sand 0 - 2 ft. Black | 1 | 80 | 14.9 | PID Background = 0.5 ppm |
| 2 | Silty Sand. 2.0 - 4.0 ft. Dark Gray. | | | 60.0 | **Soil Sample collected from 1 - 3 ft.** |
| 3 | | | | 22.0 | |
| 4 | | | | 8.5 | Groundwater encountered at 3 ft. |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 100 | 5.5 | Petroleum odors observed in soil from the ground surface to 6 ft. |
| 6 | Coarse Sand. 4.0 - 11.0 ft. Gray. | | | 4.3 | |
| 7 | | | | 1.3 | |
| 8 | | | | 1.3 | |
| 9 | | 3 | 75 | 1.2 | |
| 10 | | | | 0.9 | |
| 11 | | | | 1.4 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-008-08W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Gravel |
| DRILLING DATE: | 8/8/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | TEST RESULTS PERCENT RECOVERY | TEST RESULTS PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravel and Sand 0 - 3 ft. Gray and Yellowish Brown | 1 | 75 | 1.2 | PID Background = 0.4 ppm |
| 2 | Silty Clayey Sand. 3.0 - 4.0 ft. Gray. | | | 1.8 | |
| 3 | | | | 0.5 | |
| 4 | | | | 0.6 | **Soil Sample collected from 3 - 5 ft.** |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 50 | 0.5 | |
| 6 | Coarse Sand. 4.0 - 5.0 ft. Gray and Yellowish Brown. 5.0 - 7.0 ft. Gray. 7.0 - 8.0 ft. | | | 0.8 | Groundwater encountered at 5 ft. |
| 7 | Yellowish Brown with Gray Mottles. 8.0 - 11.0 ft. Gray. | | | 1.2 | No petroleum odors observed. |
| 8 | | | | 0.6 | |
| 9 | | 3 | 50 | 0.5 | |
| 10 | | | | 0.2 | |
| 11 | | | | 0.2 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-008-09W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Wooded, Flat |
| DRILLING DATE: | 8/8/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | TEST RESULTS PERCENT RECOVERY | TEST RESULTS PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravelly Silty Sand 0 - 1.5 ft. Dark Brown and Dark Grayish Brown | 1 | 80 | 2.2 | PID Background = 0.3 ppm |
| 2 | Sandy Clayey Silt. 1.5 - 3.0 ft. Grayish Brown | | | 0.4 | |
| 3 | | | | 0.1 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.1 | |
| 5 | Coarse Sand. 3.0 - 7.0 ft. Yellowish Brown with Gray mottles. 7.0 - 11.0 ft. Dark Gray. | 2 | 50 | 0.4 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.6 | |
| 7 | | | | 0.9 | No petroleum odors observed. |
| 8 | | | | 0.7 | |
| 9 | | 3 | 50 | 0.7 | |
| 10 | | | | 0.5 | |
| 11 | | | | 0.5 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-10W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Grass Shoulder, flat |
| DRILLING DATE: | 8/8/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Sandy Clayey Silt 0 - 2 ft. Dark Brown and Gray | 1 | 80 | 0.7 | PID Background = 0.6 ppm |
| 2 | Sandy Clayey Silt. 2.0 - 3.0 ft. Gray with Yellowish Brown | | | 0.5 | |
| 3 | | | | 0.1 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.1 | |
| 5 | Coarse Sand. 3.0 -6.0 ft. Yellowish Brown and Gray. 6.0 - 11.0 ft. Dark Gray. | 2 | 50 | 0.1 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.4 | |
| 7 | | | | 0.4 | No petroleum odors observed. |
| 8 | | | | 0.1 | |
| 9 | | 3 | 50 | 0.7 | |
| 10 | | | | 0.5 | |
| 11 | | | | 0.6 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-13**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger & Jay Lemmerman | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Shoulder, Flat |
| DRILLING DATE: | 8/7/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Topsoil -** Gravelly Silty Sand. 0 - 1.5 ft. Dark Brown and Reddish Brown. | 1 | 50 | 0.0 | PID Background = 0.9 ppm |
| 2 | Coarse Sand. 1.5 - 3 ft. Gray. | | | 0.0 | |
| 3 | | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | |
| 5 | Coarse Sand. 3.0 - 11.0 ft. Dark Gray. | 2 | 75 | 0.2 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.2 | |
| 7 | | | | 0.4 | No petroleum odors observed. |
| 8 | | | | 0.3 | |
| 9 | | 3 | 75 | 0.4 | |
| 10 | | | | 0.4 | |
| 11 | | | | 0.1 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-14W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger & Jay Lemmerman | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Shoulder, Flat |
| DRILLING DATE: | 8/14/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravelly Sand. 0 - 1.0 ft. Reddish Brown | 1 | 75 | 0.0 | PID Background = 0.0 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 3.0 ft. Grayish Brown. | | | 0.5 | |
| 3 | | | | 0.5 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.4 | |
| 5 | Coarse Sand. 3.0 - 7 ft. Gray with Yellowish Brown mottles. 7 - 11 ft. Dark Gray. | 2 | 75 | 1.0 | Groundwater encountered at 4 ft. |
| 6 | | | | 1.1 | |
| 7 | | | | 0.9 | No petroleum odors observed. |
| 8 | | | | 1.2 | |
| 9 | | 3 | 75 | 0.5 | |
| 10 | | | | 0.5 | |
| 11 | | | | 0.4 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-012-16**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Shoulder, Flat |
| DRILLING DATE: | 8/29/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Sand. 0 - 2.5 ft. Black and Dark Grayish Brown | 1 | 75 | 2.0 | PID Background = 0.8 ppm |
| 2 | Sandy Clayey Silt. 2.5 - 3.5 ft. Gray. | | | 1.3 | |
| 3 | | | | 1.3 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 1.2 | |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 100 | 1.0 | Groundwater encountered at 3.5 ft. |
| 6 | Silty Sand. 3.5 - 4.5 ft. Gray. | | | 1.5 | |
| 7 | Coarse Sand. 4.5 - 6.5 ft. Gray. 6.5 - 11 ft. Dark Gray. | | | 0.7 | No petroleum odors observed. |
| 8 | | | | 2.1 | |
| 9 | | 3 | 75 | 1.2 | |
| 10 | | | | 1.1 | |
| 11 | | | | 0.2 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-012-17W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel Fill, Flat |
| DRILLING DATE: | 8/29/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Sand. 0 - 2.5 ft. Grayish Brown | 1 | 75 | 2.2 | PID Background = 0.8 ppm |
| 2 | Silty Sand. 2.5 - 3.5 ft. Gray. | | | 1.3 | |
| 3 | | | | 1.2 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 0.7 | |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 100 | 1.8 | Groundwater encountered at 3 ft. |
| 6 | Coarse Sand. 3.5 - 7.0 ft. Gray. 7.0 - 11.0 ft. Dark Gray. | | | 1.9 | |
| 7 | | | | 0.5 | No petroleum odors observed. |
| 8 | | | | 0.7 | |
| 9 | | 3 | 75 | 0.4 | |
| 10 | | | | 0.4 | |
| 11 | | | | 0.3 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-012-19W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt |
| DRILLING DATE: | 8/29/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Asphalt and Gravelly Sand. 0 - 3.0 ft. Black and Grayish Brown | 1 | 75 | 1.4 | PID Background = 0.8 ppm |
| 2 | Sandy Clayey Silt 3.0 - 4.0 ft. Grayish Brown. | | | 1.4 | |
| 3 | | | | 1.6 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 1.5 | |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 100 | 2.0 | Groundwater encountered at 3.5 ft. |
| 6 | Coarse Sand. 4.0 - 6.0 ft. Gray. 6.0 - 9.0 ft. Gray and Yellowish Brown. 9.0 - 11.0 ft. Dark Gray. | | | 1.1 | |
| 7 | | | | 1.7 | No petroleum odors observed. |
| 8 | | | | 1.3 | |
| 9 | | 3 | 75 | 0.8 | |
| 10 | | | | 1.6 | |
| 11 | | | | 1.6 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-012-20**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt |
| DRILLING DATE: | 8/29/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Asphalt and Gravelly Sand. 0 - 1.5 ft. Black and Grayish Brown | 1 | 90 | 1.1 | PID Background = 0.8 ppm |
| 2 | Sandy Clayey Silt 1.5 - 4.5 ft. Grayish Brown and Gray. | | | 0.8 | |
| 3 | | | | 0.9 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 0.2 | |
| 5 | | 2 | 100 | 0.7 | Groundwater encountered at 4 ft. |
| 6 | **Tabb Formation; Lynnhaven Member -** | | | 0.7 | |
| 7 | Coarse Sand. 4.5 - 8.0 ft. Gray and Yellowish Brown. 8.0 - 10.0 ft. Gray. 10.0 - 11.0 ft. Dark Gray. | | | 0.9 | No petroleum odors observed. |
| 8 | | | | 0.1 | |
| 9 | | 3 | 75 | 1.1 | |
| 10 | | | | 1.2 | |
| 11 | | | | 1.1 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-015-21W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Field, Flat |
| DRILLING DATE: | 8/6/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Topsoil -** Sandy Silt. 0 - 1.0 ft. Dark Brown | 1 | 95 | 1.4 | PID Background = 1.3 ppm |
| 2 | Sandy Clayey Silt 1.0 - 2.0 ft. Yellowish Brown and Dark Brown. 2 - 3 ft. Gray with Yellowish Brown mottles. | | | 1.4 | |
| 3 | | | | 1.6 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 1.5 | |
| 5 | Coarse Sand. 3.0 - 4.0 ft. Gray. 4.0 - 6.0 ft. Gray with Yellowish Brown mottles. 6.0 - 7.0 ft. Gray. 7.0 - 11.0 ft. Dark Gray. | 2 | 50 | 2.0 | Groundwater encountered at 3.5 ft. |
| 6 | | | | 1.1 | |
| 7 | | | | 1.7 | No petroleum odors observed. |
| 8 | | | | 1.3 | |
| 9 | | 3 | 75 | 0.8 | |
| 10 | | | | 1.6 | |
| 11 | | | | 1.6 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-015-22W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Field, Flat |
| DRILLING DATE: | 8/6/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Topsoil -** Sandy Silt. 0 - 1.0 ft. Dark Brown | 1 | 95 | 0.9 | PID Background = 1.3 ppm |
| 2 | Sandy Clayey Silt 1.0 - 2.0 ft. Yellowish Brown and Dark Brown. 2 - 3 ft. Gray with Yellowish Brown mottles | | | 0.4 | |
| 3 | | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.5 | |
| 5 | Coarse Sand. 3.0 - 4.0 ft. Gray. 4.0 - 6.0 ft. Gray with Yellowish Brown mottles. 6.0 - 7.0 ft. Gray. 7.0 - 11.0 ft. Dark Gray. | 2 | 50 | 0.7 | Groundwater encountered at 3.5 ft. |
| 6 | | | | 0.8 | |
| 7 | | | | 0.5 | No petroleum odors observed. |
| 8 | | | | 0.4 | |
| 9 | | 3 | 75 | 0.5 | |
| 10 | | | | 0.8 | |
| 11 | | | | 0.3 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-015-23W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Field, Flat |
| DRILLING DATE: | 8/7/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravelly Sandy Silt. 0 - 1.0 ft. Dark Brown | 1 | 100 | 0.0 | PID Background = 0.0 ppm |
| 2 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | |
| 3 | Sandy Clayey Silt 1.0 - 3.5 ft. Yellowish Brown and Grayish Brown. | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 0.0 | |
| 5 | Coarse Sand. 3.5 - 4.0 ft. Gray. 4.0 - 11.0 ft. Dark Gray. | 2 | 75 | 0.5 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.5 | |
| 7 | | | | 0.3 | No petroleum odors observed. |
| 8 | | | | 0.6 | |
| 9 | | 3 | 75 | 0.6 | |
| 10 | | | | 0.3 | |
| 11 | | | | 0.4 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-015-24W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Field, Depression |
| DRILLING DATE: | 8/6/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Topsoil -** Sandy Silt. 0 - 1.5 ft. Dark Brown | 1 | 75 | 1.0 | PID Background = 1.3 ppm |
| 2 | | | | 1.1 | |
| 3 | **Tabb Formation; Lynnhaven Member -** | | | 1.2 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | Sandy Clayey Silt 1.5 - 3.0 ft. Yellowish Brown with Gray mottles. | | | 1.1 | |
| 5 | Coarse Sand. 3.0 - 4.0 ft. Grayish Brown with Yellowish Brown mottles. 4.0 - 7.0 ft. Grayish Brown. 7.0 - 7.5 ft. Yellowish Brown. 7.5 - 11.0 ft. Dark Gray. | 2 | 85 | 0.1 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.5 | |
| 7 | | | | 0.9 | No petroleum odors observed. |
| 8 | | | | 0.7 | |
| 9 | | 3 | 75 | 0.5 | |
| 10 | | | | 0.7 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-25W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Shoulder |
| DRILLING DATE: | 8/14/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravelly Sandy Silt. 0 - 2.0 ft. Grayish Brown | 1 | 75 | 0.5 | PID Background = 4.5 ppm |
| 2 | Sandy Silt 2.0 - 3.0 ft. Brown. | | | 0.5 | |
| 3 | | | | 0.4 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 1.2 | |
| 5 | Coarse Sand. 3.0 - 7.0 ft. Gray. 7.0 - 11.0 ft. Dark Gray. | 2 | 75 | 0.7 | Groundwater encountered at 3.5 ft. |
| 6 | | | | 2.4 | |
| 7 | | | | 1.1 | No petroleum odors observed. |
| 8 | | | | 1.4 | |
| 9 | | 3 | 75 | 0.6 | |
| 10 | | | | 0.8 | |
| 11 | | | | 1.2 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

Traffic Controls Including Flaggers Required to Complete Boring.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-26W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Shoulder, Flat |
| DRILLING DATE: | 8/7/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Sandy Silt. 0 - 1.0 ft. Dark Brown | 1 | 80 | 1.1 | PID Background = 1.3 ppm |
| 2 | Sandy Clayey Silt 1.0 - 3.0 ft. Yellowish Brown. | | | 0.4 | |
| 3 | | | | 0.4 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.2 | |
| 5 | Silty Sand. 3.0 - 4.0 ft. Yellowish Brown with Gray mottles | 2 | 75 | 0.9 | Groundwater encountered at 4 ft. |
| 6 | Coarse Sand. 4.0 - 10.0 ft. Yellowish Brown with Gray mottles. 10.0 - 11.0 ft. Dark Gray. | | | 1.1 | |
| 7 | | | | 1.2 | No petroleum odors observed. |
| 8 | | | | 1.0 | |
| 9 | | 3 | 75 | 1.0 | |
| 10 | | | | 1.0 | |
| 11 | | | | 0.7 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-012-28W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/28/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravelly Silty Sand. 0 - 5.0 ft. Dark Grayish Brown and Black | 1 | 80 | 3.0 | PID Background = 0.8 ppm |
| 2 | | | | 3.1 | |
| 3 | | | | 24.9 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 19.7 | |
| 5 | | 2 | 75 | 1.4 | Groundwater encountered at 3.5 ft. |
| 6 | **Tabb Formation; Lynnhaven Member -** | | | 1.4 | |
| 7 | Sandy Clayey Silt 5.0 - 7.0 ft. Dark Gray. | | | 1.2 | No petroleum odors observed, but PID spiked from 2 - 4 ft. |
| 8 | Coarse Sand. 7.0 - 10.0 ft. Yellowish Brown and Gray. 10.0 - 11.0 ft. Gray. | | | 1.0 | |
| 9 | | 3 | 75 | 0.3 | |
| 10 | | | | 0.4 | |
| 11 | | | | 0.1 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-012-29W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/28/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravelly Silty Sand. 0 - 6.0 ft. Dark Grayish Brown and Black | 1 | 80 | 1.0 | PID Background = 0.8 ppm |
| 2 | | | | 1.0 | |
| 3 | | | | 1.6 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 0.8 | |
| 5 | | 2 | 75 | 0.5 | Groundwater encountered at 3 ft. |
| 6 | | | | 1.0 | |
| 7 | **Tabb Formation; Lynnhaven Member -** | | | 1.2 | No petroleum odors observed, but PID spiked from 2 - 4 ft. |
| 8 | Coarse Sand. 6.0 - 7.0 ft. Yellowish Brown. 7.0 - 11.0 ft. Light Gray. | | | 0.6 | |
| 9 | | 3 | 75 | 0.1 | |
| 10 | | | | 0.7 | |
| 11 | | | | 0.2 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-012-31W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/28/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravelly Silty Sand. 0 - 9.0 ft. Dark Gray and Black | 1 | 90 | 0.4 | PID Background = 2.2 ppm |
| 2 | | | | 4.7 | |
| 3 | | | | 7.7 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 2.3 | |
| 5 | | 2 | 35 | 3.6 | Groundwater encountered at 3 ft. |
| 6 | | | | 3.3 | |
| 7 | **Tabb Formation; Lynnhaven Member -** | | | 1.3 | No petroleum odors observed. |
| 8 | Coarse Sand. 9.0 - 11.0 ft. Gray. | | | 1.3 | |
| 9 | | 3 | 75 | 0.7 | |
| 10 | | | | 0.9 | |
| 11 | | | | 0.7 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-012-32**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Hollow Stem Auger | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Hollow Stem Auger | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 9/13/2012 | TOTAL DEPTH: | 10 ft. | SAMPLER: | 2 ft. Stainless Steel Split Spoon |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: BLOWS | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Gravelly Silty Sand. 0 - 3.0 ft. Dark Gray and Black | | | | PID Background = 0.5 ppm |
| 2 | | | | | Fill material from the ground surface to 3 ft. could not be sampled due to hardness and gravel content. |
| 3 | | | | | |
| 4 | **Tabb Formation; Lynnhaven Member -** | Push | 100 | 2.7 | Groundwater Encountered at 3 ft. |
| 5 | Sandy Clayey Silt. 3.0 - 7.0 ft. Dark Gray. | Push | 100 | 35.8 | **Soil Sample collected from 4 - 6 ft.** |
| 6 | Coarse Sand. 7.0 - 10.0 ft. Gray and Yellowish Brown. | | | 107 | |
| 7 | | Push | 80 | 8.3 | Petroleum odors observed from 3 - 10 ft. Petroleum odor diminishes with depth. |
| 8 | | | | 5.1 | |
| 9 | | Push | 80 | 3.4 | |
| 10 | | | | 14.6 | |
| 11 | Boring terminated at 10 ft. bgs. | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-012-33W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/28/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | TEST RESULTS PERCENT RECOVERY | TEST RESULTS PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravelly Silty Sand. 0 - 5.0 ft. Dark Gray and Black | 1 | 90 | 5.6 | PID Background = 1.7 ppm |
| 2 | | | | 250 | |
| 3 | | | | 10.3 | |
| 4 | | | | 58.0 | **Soil Sample collected from 3 - 5 ft.** |
| 5 | | 2 | 75 | 61.0 | |
| 6 | **Tabb Formation; Lynnhaven Member -** | | | 30.2 | Groundwater encountered at 4 ft. |
| 7 | Silty Sand. 5.0 - 8.0 ft. Gray. 8.0 - 11.0 ft. Gray with Yellowish Brown mottles. | | | 47.0 | Strong petroleum odors observed in soils from 1.0 - 10.0 ft. |
| 8 | | | | 38.0 | |
| 9 | | 3 | 75 | 20.2 | |
| 10 | | | | 3.2 | |
| 11 | | | | 1.4 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-012-35W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Hollow Stem Auger | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Hollow Stem Auger | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 9/13/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 2 ft. Stainless Steel Split Spoon |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: BLOWS | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Gravelly Sand. 0 - 5.0 ft. Dark Gray and Black | | | | PID Background = 0.5 ppm |
| 2 | | | | | Fill material from the ground surface to 3 ft. could not be sampled due to hardness and gravel content. |
| 3 | | | | | |
| 4 | | Push | 100 | 0.7 | |
| 5 | | | | 0.2 | |
| 6 | **Tabb Formation; Lynnhaven Member -** | Push | 80 | 1.7 | Groundwater encountered at 3 ft. |
| 7 | Silty Sand. 5.0 - 9.0 ft. Dark Gray. | | | 0.9 | |
| 8 | Coarse Sand. 9.0 - 11.0 ft. Gray and Yellowish Brown. | Push | 80 | 25.6 | **Soil Sample collected from 7 - 9 ft.** |
| 9 | | | | 29.1 | |
| 10 | | Push | 80 | 4.1 | Petroleum odors observed from 6 - 10 ft. Petroleum odor diminishes with depth. |
| 11 | | | | 0.5 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Boring was completed as a 1.25 inch I.D. temporary monitoring well using a 10 ft. section of 0.10 slotted PVC well screen. A groundwater sample was collected from the boring using a dedicated 1/2 inch O.D. polyethylene bailer.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-024-37**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | TEST RESULTS PERCENT RECOVERY | TEST RESULTS PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravelly Sand 0 - 2.0 ft. Dark Gray | | | 86.2 | PID Background = 6.1 ppm |
| 2 | Sandy Clayey Silt. 2.0 - 4.0 ft. Gray and Dark Gray. | 1 | 75 | 95.6 | **Soil Sample collected from 1 - 3 ft.** |
| 3 | | | | 39.7 | |
| 4 | | | | 49.2 | Groundwater encountered at 3.5 ft. |
| 5 | **Tabb Formation; Lynnhaven Member -** | | | 14.3 | |
| 6 | | 2 | 100 | 15.2 | |
| 7 | Coarse Sand. 4.0 - 7.0 ft. Gray. 7.0 - 11.0 ft. Dark Gray. | | | 10.5 | Odd petroleum and chemical odors observed from 0.0 - 3.0 ft. |
| 8 | | | | 14.9 | |
| 9 | | | | 10.4 | |
| 10 | | 3 | 75 | 9.3 | |
| 11 | | | | 6.3 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-024-38W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravelly Sand 0 - 2 ft. Dark Gray | 1 | 100 | 0.4 | PID Background = 0.3 ppm |
| 2 | Sandy Clayey Silt. 2.0 - 3.0 ft. Gray with Yellowish Brown and Black mottles. | | | 0.1 | Petroleum Staining Observed on Ground Surface. |
| 3 | | | | 0.0 | |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | Groundwater encountered at 4 ft. |
| 5 | Sandy Clayey Silt. 3.0 - 6.0 ft. Gray with Yellowish Brown mottles. | 2 | 50 | 0.1 | **Soil Sample collected from 4 - 6 ft.** |
| 6 | Coarse Sand. 6.0 - 8.0 ft. Gray with Yellowish Brown mottles. 8.0 - 11.0 ft. Gray. | | | 0.0 | |
| 7 | | | | 0.0 | Possible faint petroleum odors observed from 0.0 - 1.0 ft. and from 4.0 - 6.0 ft. |
| 8 | | | | 0.0 | |
| 9 | | 3 | 75 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-025-39**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/10/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Asphalt and Gravel 0 - 1.5 ft. Dark Gray and Black | 1 | 75 | 0.0 | PID Background = 0.0 ppm |
| 2 | | | | 0.0 | |
| 3 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | Sandy Clayey Silt. 1.5 - 3.0 ft. Gray with Yellow Brown mottles. | | | 0.0 | |
| 5 | Coarse Sand. 3.0 - 6.0 ft. Gray. 6.0 - 11.0 ft. Dark Gray. | 2 | 75 | 0.0 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.0 | |
| 7 | | | | 0.1 | No petroleum odors observed. |
| 8 | | | | 0.0 | |
| 9 | | 3 | 75 | 0.0 | |
| 10 | | | | 0.1 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-025-40W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/9/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS | | | COMMENTS |
|---|---|---|---|---|---|
| | | RUN | PERCENT RECOVERY | PID READINGS (PPM) | |
| 1 | **Fill Material -** Gravel and Sandy Silt. 0 - 2.5 ft. Dark Gray and Black | 1 | 90 | 0.0 | PID Background = 0.0 ppm |
| 2 | | | | 0.0 | |
| 3 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | Sandy Silt 2.5 - 4.0 ft. Gray. | | | 0.0 | |
| 5 | Coarse Sand. 4.0 - 11.0 ft. Gray. | 2 | 40 | 0.0 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.0 | |
| 7 | | | | 0.0 | No petroleum odors observed. |
| 8 | | | | 0.0 | |
| 9 | | 3 | 30 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

Traffic Controls Including Flaggers Required to Complete Boring.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-025-41W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/9/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Sand. 0 - 3.5 ft. Yellowish Brown, Gray and Black | 1 | 100 | 124.0 | **Soil Sample collected from 0 - 1 ft.** |
| 2 | | | | 1.4 | PID Background = 0.0 ppm |
| 3 | | | | 0.0 | |
| 4 | | | | 0.0 | |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 100 | 1.5 | Groundwater encountered at 5 ft. |
| 6 | Coarse Sand. 3.5 - 11.0 ft. Dark Gray. | | | 19.8 | **Soil Sample collected from 5 - 7 ft.** |
| 7 | | | | 28.8 | |
| 8 | | | | 0.0 | Petroleum odors observed in soils from 0.0 - 1.0 ft. and from 5.0 - 7.0 ft. |
| 9 | | 3 | 75 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

Traffic Controls Including Flaggers Required to Complete Boring.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-029-42W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/13/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Sand. 0 - 1.0 ft. Dark Brown | 1 | 100 | 0.0 | PID Background = 1.3 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 3.0 ft. Gray with Yellowish Brown and Brown mottles. | | | 0.0 | |
| 3 | | | | 0.1 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | |
| 5 | Coarse Sand. 3.0 - 6.0 ft. Gray with Yellowish Brown mottles. 6.0 - 8.0 ft. Yellowish Brown with Light Brown and Gray mottles. 8.0 - 11.0 ft. Dark Gray. | 2 | 50 | 0.1 | Groundwater encountered at 3 ft. |
| 6 | | | | 1.1 | |
| 7 | | | | 0.6 | No petroleum odors observed. |
| 8 | | | | 0.4 | |
| 9 | | 3 | 75 | 0.2 | |
| 10 | | | | 0.6 | |
| 11 | | | | 0.3 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-025-43W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/10/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Sand. 0 - 1.0 ft. Dark Gray and Black | 1 | 80 | 0.5 | PID Background = 0.0 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 3.0 ft. Dark Gray. | | | 0.2 | |
| 3 | | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0 | |
| 5 | Coarse Sand. 3.0 - 6.0 ft. Dark Gray. 6.0 - 7.0 ft. Gray. 7.0 - 8.0 ft. Gray with Yellowish Brown mottles. 8.0 - 11.0 ft. Gray. | 2 | 75 | 0.1 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.1 | |
| 7 | | | | 0.0 | No petroleum odors observed. |
| 8 | | | | 0.0 | |
| 9 | | 3 | 50 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-025-44W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/9/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Sand. 0 - 5.0 ft. Dark Gray and Brown | 1 | 50 | 0.0 | PID Background = 0.5 ppm |
| 2 | | | | 0.0 | |
| 3 | | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 0.0 | |
| 5 | | 2 | 60 | 0.0 | Groundwater encountered at 4.5 ft. |
| 6 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | |
| 7 | Coarse Sand. 5.0 - 6.0 ft. Light Gray. 6.0 - 7.0 ft. Dark Gray. 7.0 - 8.0 ft. Light Grayish Brown. 8.0 - 11.0 ft. Dark Gray. | | | 0.0 | Possible petroleum odor observed from 2 - 3 feet. |
| 8 | | | | 0.0 | |
| 9 | | 3 | 50 | 0.1 | |
| 10 | | | | 0.1 | |
| 11 | | | | 0.1 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-025-45W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/9/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravelly Sand 0 - 2 ft. Dark Gray and Black | | | 0.0 | PID Background = 0.0 ppm |
| 2 | Sandy Clayey Silt. 2.0 - 4.5 ft. Gray. | 1 | 90 | 23.0 | **Soil Sample collected from 1 - 3 ft.** |
| 3 | | | | 0.0 | |
| 4 | | | | 0 | Groundwater encountered at 3.5 ft. |
| 5 | | 2 | 50 | 0.0 | |
| 6 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | |
| 7 | Coarse Sand. 4.5 - 7.0 ft. Gray with Dark Gray mottles. 7.0 - 8.0 ft. Yellowish Brown with Gray mottles. 8.0 - 11.0 ft. Dark Gray. | | | 0.0 | Faint petroleum odor observed from 2 - 3 ft. |
| 8 | | | | 0.0 | |
| 9 | | 3 | 50 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-025-46W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/9/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Sandy Silt. 0 - 2.0 ft. Dark Gray and Black | 1 | 75 | 0.0 | PID Background = 0.0 ppm |
| 2 | Sandy Silt 2.0 - 3.0 ft. Dark Gray. | | | 0.0 | |
| 3 | | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | |
| 5 | Sandy Silt. 3.0 - 4.5 ft. Grayish Brown with Yellowish Brown mottles. | 2 | 75 | 0.0 | Groundwater encountered at 4 ft. |
| 6 | Sandy Clayey Silt. 4.5 - 6.0 ft. Gray. | | | 0.0 | |
| 7 | Coarse Sand. 6.0 - 7.5 ft. Light Gray. 7.5 - 9.0 ft. Gray and Yellowish Brown. | | | 0.0 | No petroleum odors observed. |
| 8 | 9.0 - 11.0 ft. Gray. | | | 0.0 | |
| 9 | | 3 | 75 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-031-47W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/13/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Silty Sand. 0 - 2.5 ft. Dark Gray, Black, and Light Brown | 1 | 75 | 0.3 | PID Background = 0.5 ppm |
| 2 | | | | 0.2 | |
| 3 | | | | 0.3 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.6 | |
| 5 | Coarse Sand. 2.5 - 9.0 ft. Reddish Brown. 9.0 - 11.0 ft. Dark Gray. | 2 | 100 | 0.4 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.2 | |
| 7 | | | | 0.3 | No petroleum odors observed. |
| 8 | | | | 0.2 | |
| 9 | | 3 | 75 | 0.8 | |
| 10 | | | | 0.9 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-032-48W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/14/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | TEST RESULTS PERCENT RECOVERY | TEST RESULTS PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravel and Silty Sand 0 - 1.0 ft. Gray and Dark Brown. | 1 | 90 | 1.4 | PID Background = 4.5 ppm |
| 2 | Silty Clayey Sand. 1.0 - 2.0 ft. Grayish Brown. 2.0 - 3.0 ft. Grayish Brown with Reddish Brown mottles. | | | 0.6 | |
| 3 | | | | 0.8 | |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 2 | **Soil Sample collected from 3 - 5 ft.** |
| 5 | Coarse Sand. 3.0 - 4.0 ft. Grayish Brown. 4.0 - 6.0 ft. Gray with Yellowish Brown mottles. 6.0 - 7.0 ft. Gray with Reddish Brown mottles. 7.0 - 11.0 ft. Dark Gray. | 2 | 60 | 1.3 | |
| 6 | | | | 1.8 | Groundwater encountered at 4.5 ft. |
| 7 | | | | 1.5 | No petroleum odors observed. |
| 8 | | | | 1.9 | |
| 9 | | 3 | 60 | 2.5 | |
| 10 | | | | 1.8 | |
| 11 | | | | 1.2 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-034-49W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/14/2012 | TOTAL DEPTH: | 16 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravel and Silty Sand 0 - 4.0 ft. Gray and Dark Gray. | 1 | 60 | 2.4 | PID Background = 4.5 ppm |
| 2 | | | | 15.0 | |
| 3 | | | | 25.3 | |
| 4 | | | | 5.3 | |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 40 | 14.7 | Groundwater encountered at 4 ft. |
| 6 | | | | 4.0 | |
| 7 | Coarse Sand. 4.0 - 6.0 ft. Brown. 6.0 - 9.0 ft. Gray and Yellowish Brown. 9.0 - 10.0 ft. Dark Gray with Petroleum Staining. 10.0 - 16.0 ft. Gray. | | | 4.1 | |
| 8 | | | | 9.4 | |
| 9 | | 3 | 100 | 108.0 | **Soil Sample collected from 8 - 10 ft.** |
| 10 | | | | 40.6 | |
| 11 | | | | 18.3 | Petroleum odors observed from 8 - 13 feet. Odor diminishes with depth. |
| 12 | | | | 27.2 | |
| 13 | | 4 | 100 | 6.2 | |
| 14 | | | | 2.0 | |
| 15 | | | | 5.9 | |
| 16 | Boring terminated at 16 ft. bgs. | | | 2.8 | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-034-50W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/14/2012 | TOTAL DEPTH: | 15 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - | 1 | 95 | 10.0 | PID Background = 6.8 ppm |
| 2 | Gravelly Sand and Silty Clayey Sand. 0 - 3.0 ft. Grayish Brown and Reddish Brown. | | | 8.7 | |
| 3 | | | | 8.2 | |
| 4 | **Tabb Formation; Lynnhaven Member** - | | | 7.4 | Groundwater encountered at 4 ft. |
| 5 | | 2 | 50 | 6.9 | |
| 6 | | | | 7.7 | |
| 7 | Coarse Sand. 3.0 - 3.5 ft. Gray. 3.5 - 4.0 ft. Light Gray. 4.0 - 7.5 ft. Gray and Yellowish Brown. 7.5 - 15.0 ft. Dark Gray. | | | 6.8 | |
| 8 | | | | 7.8 | |
| 9 | | 3 | 100 | 8.4 | |
| 10 | | | | 7.6 | **Soil Sample collected from 9 - 11 ft.** |
| 11 | | | | 6.6 | |
| 12 | | | | 7.9 | Petroleum odors observed from 8 - 15 feet. Odor diminishes with depth. |
| 13 | | 4 | 75 | 7.4 | |
| 14 | | | | 7.8 | |
| 15 | | | | 7.6 | |
| 16 | Boring terminated at 15 ft. bgs. | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-51W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME AND LOCATIONS: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/14/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Stainless Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material** - Gravel and Silty Sand 0 - 1.0 ft. Grayish Brown. | 1 | 75 | 0.2 | PID Background = 8.8 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 2.5 ft. Grayish Brown and Reddish Brown. | | | 0.3 | |
| 3 | Coarse Sand. 2.5 - 3.5 ft. Light Brown. | | | 0.0 | |
| 4 | | | | 0.1 | Groundwater encountered at 4 ft. |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 50 | 10.7 | |
| 6 | Coarse Sand. 3.5 - 7.5 ft. Gray and Yellowish Brown. 7.5 - 11.0 ft. Dark Gray. | | | 11.8 | |
| 7 | | | | 10.6 | Petroleum odors observed from 8 - 10.5 feet. Odor diminishes with depth. |
| 8 | | | | 9.1 | |
| 9 | | 3 | 100 | 9.4 | **Soil Sample collected from 8 - 10 ft.** |
| 10 | | | | 10.2 | |
| 11 | | | | 9.5 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-031-52W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/13/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS | | | COMMENTS |
|---|---|---|---|---|---|
| | | RUN | PERCENT RECOVERY | PID READINGS (PPM) | |
| 1 | **Fill Material -** Gravel and Silty Sand. 0 - 1.0 ft. Dark Gray, Black, and Light Brown | 1 | 100 | 0.0 | PID Background = 0.6 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 3.0 ft. Grayish Brown. | | | 1.2 | |
| 3 | | | | 0.5 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.1 | |
| 5 | Coarse Sand. 3.0 -10.0 ft. Gray and Yellowish Brown. 10.0 - 11.0 ft. Dark Gray. | 2 | 60 | 0.8 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.5 | |
| 7 | | | | 0.4 | No petroleum odors observed. |
| 8 | | | | 0.8 | |
| 9 | | 3 | 75 | 0.5 | |
| 10 | | | | 0.6 | |
| 11 | | | | 0.2 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-033-53W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/13/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Silty Sand. 0 - 1.0 ft. Grayish Brown | 1 | 90 | 0.0 | PID Background = 0.6 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 3.0 ft. Grayish Brown with Yellowish Brown mottles. | | | 0.0 | |
| 3 | | | | 0.0 | |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | |
| 5 | Coarse Sand. 3.0 -4.0 ft. Yellowish Brown with Gray and Brown mottles. | 2 | 50 | 0.0 | **Soil Sample collected from 4 - 6 ft.** |
| 6 | 4.0 - 11.0 ft. Yellowish Brown with Gray mottles. | | | 0.0 | |
| 7 | | | | 0.0 | Groundwater encountered at 6 ft. |
| 8 | | | | 0.0 | No petroleum odors observed. |
| 9 | | 3 | 75 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-54W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/13/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel and Silty Sand. 0 - 2.0 ft. Grayish Brown. | 1 | 75 | 0.0 | PID Background = 0.0 ppm |
| 2 | Sandy Clayey Silt. 2.0 - 3.0 ft. Grayish Brown with Yellowish Brown mottles. | | | 0.0 | |
| 3 | | | | 0.3 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.3 | |
| 5 | Coarse Sand. 3.0 -4.0 ft. Yellowish Brown with Gray and Brown mottles. | 2 | 75 | 0.3 | Groundwater encountered at 4 ft. |
| 6 | 4.0 - 9.0 ft. Gray and Yellowish Brown. 9.0 - 11.0 ft. Yellowish Brown with Gray mottles. | | | 0.3 | |
| 7 | | | | 0.1 | |
| 8 | | | | 0.3 | No petroleum odors observed. |
| 9 | | 3 | 75 | 0.2 | |
| 10 | | | | 0.3 | |
| 11 | | | | 0.2 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-033-55W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass Shoulder, Flat |
| DRILLING DATE: | 8/13/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Sandy Silt. 0 - 1.0 ft. Dark Brown | 1 | 75 | 0.2 | PID Background = 0.6 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 2.5 ft. Grayish Brown. | | | 0.2 | |
| 3 | | | | 0.0 | |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | **Soil Sample collected from 3 - 5 ft.** |
| 5 | Coarse Sand. 2.5 - 11.0 ft. Yellowish Brown and Gray. | | | 0.7 | |
| 6 | | 2 | 60 | 0.7 | Groundwater encountered at 4.5 ft. |
| 7 | | | | 0.9 | No petroleum odors observed. |
| 8 | | | | 0.4 | |
| 9 | | 3 | 75 | 0.1 | |
| 10 | | | | 0.1 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-036-56**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Mulch/Gravel, Flat |
| DRILLING DATE: | 8/13/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Organics/Gravel. 0 - 1.0 ft. Dark Brown and Grayish Brown. | 1 | 65 | 0.0 | PID Background = 0.0 ppm |
| 2 | **Tabb Formation; Lynnhaven Member -** | | | 0.3 | |
| 3 | Coarse Sand. 1.0 - 2.0 ft. Yellowish Brown with Grayish Brown mottles. | | | 0.6 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | 2.0 - 11.0 ft. Gray and Yellowish Brown. | | | 0.5 | |
| 5 | | 2 | 35 | 0.8 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.8 | |
| 7 | | | | 0.7 | |
| 8 | | | | 0.8 | No petroleum odors observed. |
| 9 | | 3 | 70 | 0.1 | |
| 10 | | | | 0.3 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-037-57**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Organics/Gravel. 0 - 2.0 ft. Grayish Brown. | 1 | 80 | 25.8 | PID Background = 4.2 ppm |
| 2 | | | | 10.3 | |
| 3 | **Tabb Formation; Lynnhaven Member -** | | | 11.7 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | Coarse Sand. 2.0 - 3.0 ft. Dark Grayish Brown. 3.0 - 6.0 ft. Grayish Brown. 6.0 - 8.0 ft. Yellowish Brown and Gray. 8.0 - 11.0 ft. Yellowish Brown with Gray mottles. | | | 14.6 | |
| 5 | | 2 | 60 | 8.1 | Groundwater encountered at 3 ft. |
| 6 | | | | 8.0 | |
| 7 | | | | 11.0 | |
| 8 | | | | 13.0 | No petroleum odors observed. |
| 9 | | 3 | 50 | 9.5 | |
| 10 | | | | 17.5 | |
| 11 | | | | 13.6 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-59**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | TEST RESULTS PERCENT RECOVERY | TEST RESULTS PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Organics/Gravel. 0 - 1.0 ft. Grayish Brown. | 1 | 75 | 9.6 | PID Background = 4.3 ppm |
| 2 | Coarse Sand. 1.0 - 4.0 ft. Gray and Grayish Brown. | | | 15.1 | |
| 3 | | | | 6.3 | |
| 4 | | | | 9.3 | Groundwater encountered at 4 ft. |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 60 | 11.1 | No petroleum odors observed. No samples retained for analysis. |
| 6 | Coarse Sand. 4.0 - 5.0 ft. Gray and Yellowish Brown. 5.0 - 11.0 ft. Yellowish Brown with Gray mottles. | | | 9.3 | |
| 7 | | | | 11.9 | |
| 8 | | | | 12.5 | |
| 9 | | 3 | 75 | 11.5 | |
| 10 | | | | 7.5 | |
| 11 | | | | 7.6 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-046-61**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Organics/Gravel. 0 - 1.0 ft. Grayish Brown. | 1 | 100 | 38.1 | **Soil Sample collected from 0 - 1 ft.** |
| 2 | Sandy Silt. 1.0 - 2.0 ft. Light Grayish Brown. 2.0 - 3.5 ft. Dark Gray. | | | 14.1 | PID Background = 6.1 ppm |
| 3 | | | | 8.8 | |
| 4 | | | | 11.5 | Groundwater encountered at 5 ft. |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 75 | 11.0 | No petroleum odors observed. |
| 6 | Coarse Sand. 3.5 - 4.5 ft. Gray. 4.5 - 11.0 ft. Gray and Yellowish Brown. | | | 19.1 | No sample collected. |
| 7 | | | | 14.6 | |
| 8 | | | | 13.5 | |
| 9 | | 3 | 75 | 12.1 | |
| 10 | | | | 12.5 | |
| 11 | | | | 7.1 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-054-62**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS | | | COMMENTS |
|---|---|---|---|---|---|
| | | RUN | PERCENT RECOVERY | PID READINGS (PPM) | |
| 1 | **Fill Material -** Organics and Silty Sand. 0 - 1.0 ft. Dark Brown | 1 | 100 | 5.5 | PID Background = 8.8 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 2.5 ft. Grayish Brown. | | | 9.3 | |
| 3 | | | | 10.1 | |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 8.8 | |
| 5 | Coarse Sand. 2.5 - 11.0 ft. Yellowish Brown with Gray mottles. | 2 | 100 | 22.3 | **Soil Sample collected from 4 - 6 ft.** |
| 6 | | | | 15.8 | |
| 7 | | | | 11.7 | Groundwater encountered at 4.5 ft. |
| 8 | | | | 16.0 | No petroleum odors observed. |
| 9 | | 3 | 75 | 8.7 | |
| 10 | | | | 8.4 | |
| 11 | | | | 9.1 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-054-63**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS | | | COMMENTS |
|---|---|---|---|---|---|
| | | RUN | PERCENT RECOVERY | PID READINGS (PPM) | |
| 1 | **Fill Material -** Sandy Silt. 0 - 3.0 ft. Light Brown. | 1 | 60 | 17.0 | PID Background = 18.8 ppm |
| 2 | | | | 18.6 | |
| 3 | | | | 18.8 | |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 20.7 | Groundwater encountered at 4 ft. |
| 5 | Coarse Sand. 3.0 - 4.0 ft. Light Grayish Brown. 4.0 - 5.0 ft. Gray and Yellowish Brown. 5.0 - 9.5 ft. Gray with Yellowish Brown mottles. 9.5 - 11.0 ft. Reddish Brown. | 2 | 75 | 17.9 | No petroleum odors observed. No samples retained for analysis. |
| 6 | | | | 19.1 | |
| 7 | | | | 23.2 | |
| 8 | | | | 12.1 | |
| 9 | | 3 | 75 | 11.1 | |
| 10 | | | | 13.8 | |
| 11 | | | | 12.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-059-65**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Asphalt, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS | | | COMMENTS |
|---|---|---|---|---|---|
| | | RUN | PERCENT RECOVERY | PID READINGS (PPM) | |
| 1 | **Fill Material -** Silt and Organics. 0 - 1.0 ft. Dark Brown. | 1 | 90 | 7.8 | PID Background = 13.5 ppm |
| 2 | Silty Sand. 1.0 - 2.0 ft. Grayish Brown. | | | 8.9 | |
| 3 | **Tabb Formation; Lynnhaven Member -** | | | 12.8 | |
| 4 | Coarse Sand. 2.0 -6.0 ft. Light Grayish Brown with Yellow Brown mottles. 6.0 - 7.0 ft. Yellowish Brown and Gray. 7.0 - 11.0 ft. Gray. | | | 13.0 | |
| 5 | | 2 | 75 | 21.2 | **Soil Sample collected from 4 - 6 ft.** |
| 6 | | | | 19.6 | |
| 7 | | | | 12.9 | Groundwater encountered at 6 ft. |
| 8 | | | | 15.6 | No petroleum odors observed. |
| 9 | | 3 | 75 | 10.4 | |
| 10 | | | | 13.8 | |
| 11 | | | | 10.3 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-POND 30-66W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/10/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Sandy Silt. 0 - 1.5 ft. Dark Brown | 1 | 100 | 0.0 | PID Background = 0.0 ppm |
| 2 | Silty Sand. 1.5 - 2.5 ft. Gray. | | | 0.0 | |
| 3 | | | | 0.0 | |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | **Soil Sample collected from 3 - 5 ft.** |
| 5 | Silty Sand. 2.5 - 4.0 ft. | | | 0.0 | |
| 6 | Coarse Sand. 4.0 - 5.0 ft. Gray. 5.0 - 11.0 ft. Yellow Brown with Gray mottles. | 2 | 60 | 0.0 | Groundwater encountered at 5 ft. |
| 7 | | | | 0.0 | No petroleum odors observed. |
| 8 | | | | 0.0 | |
| 9 | | 3 | 75 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-POND 30-67W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/10/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Sandy Silt. 0 - 1.5 ft. Dark Brown | 1 | 100 | 0.0 | PID Background = 0.0 ppm |
| 2 | Silty Sand. 1.5 - 2.5 ft. Gray. 2.5 - 4.0 ft. Yellow Brown | | | 0.0 | |
| 3 | | | | 0.0 | |
| 4 | | | | 0.0 | **Soil Sample collected from 3 - 5 ft.** |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 40 | 0.0 | |
| 6 | Coarse Sand. 4.0 - 6.0 ft. Gray. 6.0 - 10.0 ft. Gray with Reddish Brown mottles. 10.0 - 11.0 ft. Yellow Brown with Gray mottles. | | | 0.0 | Groundwater encountered at 5 ft. |
| 7 | | | | 0.0 | No petroleum odors observed. |
| 8 | | | | 0.0 | |
| 9 | | 3 | 55 | 0.0 | |
| 10 | | | | 0.0 | |
| 11 | | | | 0.0 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-VDOT-68W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/7/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravelly Sand. 0 - 2.0 ft. Grayish Brown. | 1 | 75 | 0.3 | PID Background = 0.6 ppm |
| 2 | | | | 0.3 | |
| 3 | **Tabb Formation; Lynnhaven Member -** | | | 0.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | Coarse Sand. 2.0 - 11.0 ft. Dark Gray. | | | 0.2 | |
| 5 | | 2 | 75 | 0.6 | Groundwater encountered at 4 ft. |
| 6 | | | | 0.1 | |
| 7 | | | | 0.5 | |
| 8 | | | | 0.5 | No petroleum odors observed. |
| 9 | | 3 | 75 | 0.5 | |
| 10 | | | | 0.8 | |
| 11 | | | | 0.4 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-POND 8-69W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/8/2012 | TOTAL DEPTH: | 10 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Silty Sand. 0 - 1.0 ft. Dark Brown | 1 | 85 | 1.3 | PID Background = 0.7 ppm |
| 2 | Sandy Clayey Silt. 1.0 - 3.0 ft. Gray. | | | 1.6 | |
| 3 | | | | 0.4 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 0.5 | |
| 5 | Coarse Sand. 3.0 -4.0 ft. Gray. 4.0 - 6.0 ft. Gray with Yellowish Brown mottles. | 2 | 80 | 1.1 | Groundwater encountered at 4 ft. |
| 6 | 6.0 - 10.0 ft. Gray. | | | 1.5 | |
| 7 | | | | 0.0 | |
| 8 | | | | 0.8 | No petroleum odors observed. |
| 9 | | 3 | 50 | 0.4 | |
| 10 | | | | 0.0 | |
| 11 | Boring Terminated at 10 ft. | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-POND 8-70W**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Grass, Flat |
| DRILLING DATE: | 8/8/2012 | TOTAL DEPTH: | 11 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS RUN | PERCENT RECOVERY | PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Silty Sand. 0 - 1.0 ft. Dark Brown. 1.0 - 3.0 ft. Brown and Black. | 1 | 75 | 1.4 | PID Background = 0.7 ppm |
| 2 | | | | 1.5 | |
| 3 | | | | 0.6 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | **Tabb Formation; Lynnhaven Member -** | | | 1.3 | |
| 5 | Coarse Sand. 3.0 -4.0 ft. Gray. 4.0 - 6.0 ft. Yellowish Brown. 6.0 - 7.0 ft. Dark Gray. 7.0 - 11.0 ft. Gray. | 2 | 50 | 1.4 | Groundwater encountered at 4 ft. |
| 6 | | | | 1.0 | |
| 7 | | | | 1.2 | |
| 8 | | | | 1.2 | No petroleum odors observed. |
| 9 | | 3 | 50 | 0.7 | |
| 10 | | | | 0.7 | |
| 11 | | | | 0.7 | |
| 12 | Boring terminated at 11 ft. bgs. | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

*Groundwater sample collected from the boring using a Screen Point Groundwater Sampler, dedicated polyethylene and silicone tubing, and a peristaltic pump.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-015-80**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | EEE Consulting, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | NA | DRILL ANGLE: | N/A |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Shovel | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Petroleum Stain in Field |
| DRILLING DATE: | 8/6/2012 | TOTAL DEPTH: | 0.5 ft. | SAMPLER: | Shovel |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS | | | COMMENTS |
|---|---|---|---|---|---|
| | | RUN | PERCENT RECOVERY | PID READINGS (PPM) | |
| 1 | **Fill Material -** Sandy Clayey Silt. 0 - 0.5 ft. Dark Brown. | N/A | N/A | N/A | Petroleum staining and odors observed. |
| 2 | Boring terminated at 0.5 ft. bgs. | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Boring Completed through a Petroleum Stain Stripped of Vegetation in the Field.

# SOIL BOREHOLE LOG

**BORING NUMBER: EEE-024-81**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | Fishburne Drilling, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | Truck-Mounted Geoprobe | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Geoprobe | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Gravel, Flat |
| DRILLING DATE: | 8/15/2012 | TOTAL DEPTH: | 8 ft. | SAMPLER: | 4 ft. Steel Rod |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** Gravel. 0 - 2.0 ft. Grayish Brown. | 1 | 90 | 9.3 | PID Background = 5.3 ppm |
| 2 | Sandy Clayey Silt. 2.0 - 3.0 ft. Dark Gray. 3.0 - 4.0 ft. Gray. | | | 13.0 | |
| 3 | | | | 26.0 | **Soil Sample collected from 2 - 4 ft.** |
| 4 | | | | 16.0 | |
| 5 | **Tabb Formation; Lynnhaven Member -** | 2 | 75 | * | Groundwater encountered at 4 ft. |
| 6 | Coarse Sand. 4.0 - 7.0 ft. Yellowish Brown and Gray. 7.0 - 8.0 ft. Dark Gray. | | | * | |
| 7 | | | | * | |
| 8 | | | | * | No petroleum odors observed. |
| 9 | Boring terminated at 8 ft. bgs. | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

* PID malfunctioned following scanning soil sample from 3.0 - 4.0 ft. Therefore, there is no PID data for the soil samples collected from 4.0 - 8.0 ft.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-082-82**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | EEE Consulting, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | NA | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Hand Auger | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Spoil Pile |
| DRILLING DATE: | 8/16/2012 | TOTAL DEPTH: | 6 ft. | SAMPLER: | Stainless Steel Auger Bucket |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS | | | COMMENTS |
|---|---|---|---|---|---|
| | | RUN | PERCENT RECOVERY | PID READINGS (PPM) | |
| 1 | **Fill Material -** | | | 6.8 | PID Background = 9.5 ppm |
| 2 | Silty Sand. 0 - 5.5 ft. Dark Brown. | | | 7.5 | |
| 3 | Clayey Sand. 5.5 - 6.0 ft. Grayish Brown. | | | 5.6 | No petroleum odors observed. No samples retained for analysis. |
| 4 | | | | 5.5 | |
| 5 | | | | 5.1 | |
| 6 | | | | 3.4 | Groundwater encountered at 5.5 ft. |
| 7 | Boring terminated at 6 ft. bgs. | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Boring Completed through Top of Spoil Pile.

# SOIL BOREHOLE LOG

**BORING NUMBER:** **EEE-082-83**

| | | | | | |
|---|---|---|---|---|---|
| SITE NAME: | MLK Extension | DRILLING CONTRACTOR: | EEE Consulting, Inc. | | |
| PROJECT NAME: | MLK/MTT/DTT | DRILL RIG: | NA | DRILL ANGLE: | 90 degrees |
| PROJECT NUMBER: | 12-074 | DRILLING METHOD: | Hand Auger | | |
| LOGGED BY: | Paul Leeger | GROUND ELEVATION: | ~10 ft. | SURFACE CONDITIONS: | Spoil Pile |
| DRILLING DATE: | 8/16/2012 | TOTAL DEPTH: | 6 ft. | SAMPLER: | Stainless Steel Auger Bucket |

| DEPTH IN (FEET) | DESCRIPTION OF MATERIAL | TEST RESULTS: RUN | TEST RESULTS: PERCENT RECOVERY | TEST RESULTS: PID READINGS (PPM) | COMMENTS |
|---|---|---|---|---|---|
| 1 | **Fill Material -** | | | 5.0 | PID Background = 9.5 ppm |
| 2 | Silty Sand. 0 - 4.0 ft. Dark Brown. | | | 5.7 | |
| 3 | Sandy Clayey Silt. 4.0 - 5.0 ft. Gray with Reddish Brown mottles | | | 5.1 | No petroleum odors observed. No samples retained for analysis. |
| 4 | | | | 7.0 | |
| 5 | | | | 3.9 | Groundwater encountered at 5 ft. |
| 6 | **Tabb Formation; Lynnhaven Member -** Coarse Sand. 5.0 - 6.0 ft. Gray. | | | 7.4 | |
| 7 | Boring terminated at 6 ft. bgs. | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |

Boring Completed through Top of Spoil Pile.

# ATTACHMENT B

# LABORATORY DATA TABLES AND REPORTS

**Laboratory Report Index Table**

| Test America Job ID | MLK Corridor Area | Boring ID |
|---|---|---|
| 180-13260 | PRHA & Pond 14 | 3E-007-03, 3E-009-07W |
| | Ramp SW & Mainline | 3E-007-05, 3E-VDOT-13 |
| | Ramp WN and Ponds 19 & 20 | 3E-VDOT-68W |
| 180-13241 | Ramp WN and Ponds 19 & 20 | 3E-015-21W, 3E-015-22W, 3E-015-23W, 3E-015-24W, 3E-VDOT-26W, 3E-015-80 |
| 180-13331 | PVMF & NPBL | 3E-005-01 |
| | PRHA & Pond 14 | 3E-008-06W, 3E-008-08W, 3E-008-09W, 3E-VDOT-10W |
| | Pond 8 | 3E-Pond 8-69W, 3E-Pond 8-70W |
| 180-13351 | Dominion Demolition & Pond 24 | 3E-024-38W, 3E-025-39, 3E-025-40W, 3E-025-41W, 3E-025-43W, 3E-025-44W, 3E-025-45W 3E-025-46W |
| | County Street to London Boulevard | 3E-VDOT-66W, 3E-VDOT-67W |
| 180-13443 | Dominion Demolition & Pond 24 | 3E-029-42W |
| | Pond 25 | 3E-031-47W, 3E-032-48W, 3E-VDOT-51W, 3E-031-52W, 3E-033-53W, 3E-VDOT-54W, 3E-VDOT-55W |
| | Ramp SW & Mainline | 3E-VDOT-14W |
| | Ramp WN and Ponds 19 & 20 | 3E-VDOT-25W |
| | County Street to London Boulevard | 3E-036-56 |
| 180-13486 | Pond 25 | 3E-034-49W, 3E-034-50W |
| | PRHA & Pond 14 | 3E-008-04W |
| | Dominion Demolition & Pond 24 | 3E-024-37 |
| 180-13550 | Dominion Demolition & Pond 24 | 3E-025-81 |
| | County Street to London Boulevard | 3E-VDOT-57, 3E-046-61, 3E-054-62, 3E-059-65 |
| 180-13966 | PVMF & NPBL | 3E-006-02W |
| | CSX & Vulcan | 3E-012-28W, 3E-012-29W, 3E-012-31W, 3E-012-33W |
| | Ramp SW & Mainline | 3E-012-16, 3E-012-17W, 3E-012-19W |
| | Ramp WN and Ponds 19 & 20 | 3E-012-20 |
| 180-14425 | CSX & Vulcan | 3E-012-32, 3E-012-35W |

| Pond 8<br>Parcels: VDOT | | Boring /<br>Groundwater Sampling Point | | Regulatory Standards | | |
|---|---|---|---|---|---|---|
| Boring ID: | | 3E-Pond 8-69W | 3E-Pond 8-70W | VDEQ Clean Fill Criteria | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 69W @ 2-4' | 70W @ 2-4' | | | |
| Analytical Constituent | Units | Results | | | Residential | Industrial |
| Oil and Grease | mg/Kg | 73 JB | 260 B | | | |
| TPH-DRO | mg/Kg | 2.5 J | 6.8 | a,b,c,d,e | | |
| TPH-GRO | mg/Kg | ND | ND | a,b,c,d,e | | |
| Benzene | ug/Kg | ND | ND | a,b,c,d,e | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND | ND | a,b,c,d,e | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND | ND | a,b,c,d,e | 5.40E+00 | 2.70E+01 |
| Xylenes (total) | ug/Kg | ND | ND | a,b,c,d,e | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND | ND | a,b,c,d,e | | |
| EOX | mg/Kg | ND | ND | a,b,c,d,e | | |

**NOTES:**

ND - Not Detected Above the Laboratory's Method Detection Limit

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.

b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.

c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.

d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.

e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| PVMF & NPBL Parcels: 005 & 006 | | Boring / Groundwater Sampling Point | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-005-01 | 3E-006-02W | 3E-006-02W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 01 @ 2-4' | 02W @ 1-3' | 02W @ 1.5'-2.0' | | | | |
| Analytical Constituent | Units | Results ** | | | | | Residential | Industrial |
| Oil and Grease | mg/Kg | 290 B | 86 JB | | | | | |
| TPH-DRO | mg/Kg | 5.5 | ND | | a,b,c,d,e | | | |
| TPH-GRO | mg/Kg | ND | ND | | a,b,c,d,e | | | |
| Benzene | ug/Kg | ND | ND | | a,b,c,d,e | | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND | ND | | a,b,c,d,e | | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND | ND | | a,b,c,d,e | | 5.40E+00 | 2.70E+01 |
| Xylenes (Total) | ug/Kg | ND | ND | | a,b,c,d,e | | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND | ND | | a,b,c,d,e | | | |
| EOX | mg/Kg | ND | | | a,b,c,d,e | | | |
| Volatile Organic Constituents (Method 8260) | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | | ND | | | | 8.70E+03 | 3.80E+04 |
| 1,1,2,2-Tetrachloroethane | ug/Kg | | ND | | | | 5.60E-01 | 2.80E+00 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/Kg | | ND | | | | 4.30E+04 | 1.80E+05 |
| 1,1,2-Trichloroethane | ug/Kg | | ND | | | | 1.10E+00 | 5.30E+00 |
| 1,1-Dichloroethane | ug/Kg | | ND | | | | 3.30E+00 | 1.70E+01 |
| 1,1-Dichloroethene | ug/Kg | | ND | | | | 2.40E+02 | 1.10E+03 |
| 1,2,4-Trichlorobenzene | ug/Kg | | ND | | | | 2.20E+01 | 9.90E+01 |
| 1,2-Dibromo-3-chloropropane | ug/Kg | | ND | | | | 5.40E-03 | 6.90E-02 |
| 1,2-Dibromoethane | ug/Kg | | ND | | | | 3.40E-02 | 1.70E-01 |
| 1,2-Dichlorobenzene | ug/Kg | | ND | | | | 1.90E+03 | 9.80E+03 |
| 1,2-Dichloroethane | ug/Kg | | ND | | | | 4.30E-01 | 2.20E+00 |
| 1,2-Dichloropropane | ug/Kg | | ND | | | | 9.40E-01 | 4.70E+00 |
| 1,3-Dichlorobenzene | ug/Kg | | ND | | | | | |
| 1,4-Dichlorobenzene | ug/Kg | | ND | | | | 2.40E+00 | 1.20E+01 |
| 2-Butanone | ug/Kg | | ND | | | | 2.80E+04 | 2.00E+05 |
| 2-Hexanone | ug/Kg | | ND | | | | 2.10E+02 | 1.40E+03 |
| 4-Methyl-2-pentanone | ug/Kg | | ND | | | | 5.30E+03 | 5.30E+04 |
| Acetone | ug/Kg | | ND | | | | 6.10E+04 | 6.30E+05 |
| Benzene | ug/Kg | ND | ND | | | | 1.10E+00 | 5.40E+00 |
| Bromodichloromethane | ug/Kg | | ND | | | | 2.70E-01 | 1.40E+00 |
| Bromoform | ug/Kg | | ND | | | | 6.20E+01 | 2.20E+02 |
| Bromomethane | ug/Kg | | ND | | | | 7.30E+00 | 3.20E+01 |
| Carbon disulfide | ug/Kg | | ND | | | | 8.20E+02 | 3.70E+03 |
| Carbon tetrachloride | ug/Kg | | ND * | | | | 6.10E-01 | 3.00E+00 |
| Chlorobenzene | ug/Kg | | ND | | | | 2.90E+02 | 1.40E+03 |
| Chloroethane | ug/Kg | | ND | | | | | |
| Chloroform | ug/Kg | | ND | | | | 2.90E-01 | 1.50E+00 |
| Chloromethane | ug/Kg | | ND | | | | 1.20E+02 | 5.00E+02 |
| cis-1,2-Dichloroethene | ug/Kg | | ND | | | | 1.60E+02 | 2.00E+03 |
| cis-1,3-Dichloropropene | ug/Kg | | ND | | | | 1.70E+00 | 8.30E+00 |
| Cyclohexane | ug/Kg | | ND | | | | 7.00E+03 | 2.90E+04 |

| PVMF & NPBL Parcels: 005 & 006 | | Boring / Groundwater Sampling Point | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-005-01 | 3E-006-02W | 3E-006-02W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 01 @ 2-4' | 02W @ 1-3' | 02W @ 1.5'-2.0' | | | | |
| Analytical Constituent | Units | Results ** | | | | | Residential | Industrial |
| **Volatile Organic Constituents (Continued) (Method 8260)** | | | | | | | | |
| Dibromochloromethane | ug/Kg | | ND | | | | 6.80E-01 | 3.30E+00 |
| Dichlorodifluoromethane | ug/Kg | | ND | | | | 9.40E+01 | 4.00E+02 |
| Ethylbenzene | ug/Kg | ND | ND | | | | 5.40E+00 | 2.70E+01 |
| Isopropylbenzene | ug/Kg | | ND | | | | 2.10E+03 | 1.10E+04 |
| Xylenes (Total) | ug/Kg | ND | ND | | | | 5.90E+02 | 2.50E+03 |
| Methyl acetate | ug/Kg | | ND | | | | 7.80E+04 | 1.00E+06 |
| Methyl tert-butyl ether | ug/Kg | | ND | | | | 4.30E+01 | 2.20E+02 |
| Methylcyclohexane | ug/Kg | | ND | | | | | |
| Methylene chloride | ug/Kg | | ND | | | | 5.60E+01 | 9.60E+02 |
| Styrene | ug/Kg | | ND | | | | 6.30E+03 | 3.60E+04 |
| Tetrachloroethene | ug/Kg | | ND | | | | 2.20E+01 | 1.10E+02 |
| Toluene | ug/Kg | ND | ND | | | | 5.00E+03 | 4.50E+04 |
| trans-1,2-Dichloroethene | ug/Kg | | ND | | | | 1.50E+02 | 6.90E+02 |
| trans-1,3-Dichloropropene | ug/Kg | | ND | | | | | |
| Trichloroethene | ug/Kg | | ND | | | | 9.10E-01 | 6.40E+00 |
| Trichlorofluoromethane | ug/Kg | | ND | | | | 7.90E+02 | 3.40E+03 |
| Vinyl chloride | ug/Kg | | ND | | | | 6.00E-02 | 1.70E+00 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | |
| 1,1'-Biphenyl | ug/Kg | | ND | | | | 5.10E+01 | 2.10E+02 |
| 2,4,5-Trichlorophenol | ug/Kg | | ND | | | | 6.10E+03 | 6.20E+04 |
| 2,4,6-Trichlorophenol | ug/Kg | | ND | | | | 4.40E+01 | 1.60E+02 |
| 2,4-Dichlorophenol | ug/Kg | | ND | | | | 1.80E+02 | 1.80E+03 |
| 2,4-Dimethylphenol | ug/Kg | | ND | | | | 1.20E+03 | 1.20E+04 |
| 2,4-Dinitrophenol | ug/Kg | | ND | | | | 1.20E+02 | 1.20E+03 |
| 2,4-Dinitrotoluene | ug/Kg | | ND | | | | 1.60E+00 | 5.50E+00 |
| 2,6-Dinitrotoluene | ug/Kg | | ND | | | | 6.10E+01 | 6.20E+02 |
| 2-Chloronaphthalene | ug/Kg | | ND | | | | 6.30E+03 | 8.20E+04 |
| 2-Chlorophenol | ug/Kg | | ND | | | | 3.90E+02 | 5.10E+03 |
| 2-Methylnaphthalene | ug/Kg | | ND | | | | 2.30E+02 | 2.20E+03 |
| 2-Methylphenol | ug/Kg | | ND | | | | | |
| 2-Nitroaniline | ug/Kg | | ND | | | | 6.10E+02 | 6.00E+03 |
| 2-Nitrophenol | ug/Kg | | ND | | | | | |
| 3,3'-dicholorobenzidine | ug/Kg | | ND | | | | 1.10E+00 | 3.80E+00 |
| 3-Nitroaniline | ug/Kg | | ND | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/Kg | | ND | | | | | |
| 4-Bromophenyl-phenylether | ug/Kg | | ND | | | | | |
| 4-Chloro-3-methylphenol | ug/Kg | | ND | | | | | |
| 4-Chloroaniline | ug/Kg | | ND | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/Kg | | ND | | | | | |
| 4 and 3-Methylphenol | ug/Kg | | ND | | | | | |
| 4-Nitroaniline | ug/Kg | | ND | | | | 2.40E+01 | 8.60E+01 |
| 4-Nitrophenol | ug/Kg | | ND | | | | | |

| PVMF & NPBL Parcels: 005 & 006 | | Boring / Groundwater Sampling Point | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-005-01 | 3E-006-02W | 3E-006-02W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 01 @ 2-4' | 02W @ 1-3' | 02W @ 1.5'-2.0' | | | | |
| Analytical Constituent | Units | Results ** | | | | | Residential | Industrial |
| Semi-Volatile Constituents (Continued) (Method 8270C) | | | | | | | | |
| Acenaphthene | ug/Kg | | ND | | | | 3.40E+03 | 3.30E+04 |
| Acenaphthylene | ug/Kg | | ND | | | | | |
| Acetophenone | ug/Kg | | ND | | | | 7.80E+03 | 1.00E+05 |
| Anthracene | ug/Kg | | ND | | | | 1.70E+04 | 1.70E+05 |
| Atrazine | ug/Kg | | ND | | | | 2.10E+00 | 7.50E+00 |
| Benzaldehyde | ug/Kg | | ND | | | | 7.80E+03 | 1.00E+05 |
| Benzo(a) pyrene | ug/Kg | | ND | | | | 1.50E-02 | 2.10E-01 |
| Benzo(a)anthracene | ug/Kg | | ND | | | | 1.50E-01 | 2.10E+00 |
| Benzo(b) fluoranthene | ug/Kg | | ND | | | | 1.50E-01 | 2.10E+00 |
| Benzo(g,h,i) perylene | ug/Kg | | ND | | | | | |
| Benzo(k) fluoranthene | ug/Kg | | ND | | | | 1.50E+00 | 2.10E+01 |
| Bis(2-chloroethoxy) methane | ug/Kg | | ND | | | | 1.80E+02 | 1.80E+03 |
| Bis(2-chloroethyl) ether | ug/Kg | | ND | | | | 2.10E-01 | 1.00E+00 |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | ND | | | | 3.50E+01 | 1.20E+02 |
| Butylbenzylphthalate | ug/Kg | | ND | | | | 2.60E+02 | 9.10E+02 |
| Caprolactam | ug/Kg | | ND | | | | 3.10E+04 | 3.10E+05 |
| Carbazole | ug/Kg | | ND | | | | | |
| Chrysene | ug/Kg | | ND | | | | 1.50E+01 | 2.10E+02 |
| Dibenzo(a,h) anthracene | ug/Kg | | ND | | | | 1.50E-02 | 2.10E-01 |
| Dibenzofuran | ug/Kg | | ND | | | | 7.80E+01 | 1.00E+03 |
| Diethylphthalate | ug/Kg | | ND | | | | 4.90E+04 | 4.90E+05 |
| Dimethylphthalate | ug/Kg | | ND | | | | | |
| Di-n-butylphthalate | ug/Kg | | ND | | | | | |
| Di-n-octylphthalate | ug/Kg | | ND | | | | | |
| Fluoranthene | ug/Kg | | ND | | | | 2.30E+03 | 2.20E+04 |
| Fluorene | ug/Kg | | ND | | | | 2.30E+03 | 2.20E+04 |
| Hexachlorobenzene | ug/Kg | | ND | | | | 3.00E-01 | 1.10E+00 |
| Hexachlorobutadiene | ug/Kg | | ND | | | | 6.20E+00 | 2.20E+01 |
| Hexachlorocyclopentadiene | ug/Kg | | ND | | | | 3.70E+02 | 3.70E+03 |
| Hexachloroethane | ug/Kg | | ND | | | | 1.20E+01 | 4.30E+01 |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | ND | | | | 1.50E-01 | 2.10E+00 |
| Isophorone | ug/Kg | | ND | | | | 5.10E+02 | 1.80E+03 |
| Naphthalene | ug/Kg | | 67 J | | | | 3.60E+00 | 1.80E+01 |
| Nitrobenzene | ug/Kg | | ND | | | | 4.80E+00 | 2.40E+01 |
| N-Nitroso-di-n propylamine | ug/Kg | | ND | | | | 6.90E-02 | 2.50E-01 |
| N-Nitrosodiphenylamine | ug/Kg | | ND | | | | 9.90E+01 | 3.50E+02 |
| Pentachlorophenol | ug/Kg | | ND | | | | 8.90E-01 | 2.70E+00 |
| Phenanthrene | ug/Kg | | ND | | | | | |
| Phenol | ug/Kg | | ND | | | | 1.80E+04 | 1.80E+05 |
| Pyrene | ug/Kg | | ND | | | | 1.70E+03 | 1.70E+04 |

| PVMF & NPBL Parcels: 005 & 006 | | Boring / Groundwater Sampling Point | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-005-01 | 3E-006-02W | 3E-006-02W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 01 @ 2-4' | 02W @ 1-3' | 02W @ 1.5'-2.0' | | | | |
| Analytical Constituent | Units | Results ** | | | | | Residential | Industrial |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | |
| Arsenic | mg/Kg | | **0.65 J** | | | | 3.90E-01 | 1.60E+00 |
| Barium | mg/Kg | | 20 J | | | | 1.50E+04 | 1.90E+05 |
| Cadmium | mg/Kg | | 0.12 J | | | | 7.00E+01 | 8.00E+02 |
| Chromium | mg/Kg | | ***9*** | | | | 2.90E-01 | 5.60E+00 |
| Lead | mg/Kg | | 8.8 | | | | 4.00E+02 | 8.00E+02 |
| Mercury | mg/Kg | | 0.047 | | | | 1.00E+01 | 4.30E+01 |
| Selenium | mg/Kg | | 0.78 B | | | | 3.90E+02 | 5.10E+03 |
| Silver | mg/Kg | | ND | | | | 3.90E+02 | 5.10E+03 |
| **PCBs (Method 8082)** | | | | | | | | |
| Aroclor-1016 | ug/Kg | | ND | | | | 3.90E+00 | 2.10E+01 |
| Aroclor-1221 | ug/Kg | | ND | | | | 1.40E-01 | 5.40E+01 |
| Aroclor-1232 | ug/Kg | | ND | | | | 1.40E-01 | 5.40E+01 |
| Aroclor-1242 | ug/Kg | | ND | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1248 | ug/Kg | | ND | | | | 2.20E-01 | 7.40E+01 |
| Aroclor-1254 | ug/Kg | | ND | | | | 2.20E-01 | 7.40E+01 |
| Aroclor-1260 | ug/Kg | | ND | | | | 2.20E-01 | 7.40E+01 |
| **Total PCBs** | ug/Kg | | ND | | | 50 [2] | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | |
| Arsenic | mg/L | | | 0.003 J | | 5 | | |
| Barium | mg/L | | | 0.12 JB | | 100 | | |
| Cadmium | mg/L | | | 0.00088 JB | | 1 | | |
| Chromium | mg/L | | | 0.0022 J | | 5 | | |
| Lead | mg/L | | | 0.012 J | | 5 | | |
| Mercury | mg/L | | | ND | | 0.02 | | |
| Selenium | mg/L | | | 0.012 JB | | 1 | | |
| Silver | mg/L | | | ND | | 5 | | |

| PVMF & NPBL<br>Parcels: 005 & 006 | | Boring / Groundwater Sampling Point | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-005-01 | 3E-006-02W | 3E-006-02W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 01 @ 2-4' | 02W @ 1-3' | 02W @ 1.5'-2.0' | | | | |
| Analytical Constituent | Units | Results ** | | | | | Residential | Industrial |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

** Bold values exceed Residential Risk Based Concentrations

Bold and Italic values exceed Industrial Risk Based Concentrations

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.
b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.
c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.
d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.
e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

[1] 40 CFR Part 261.4
[2] VSWMR 9 VAC 20-81-140.B.4.(d))

Data Qualifiers:
J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.
B - Compound was found in the blank and sample.
H - Sample was prepped or analyzed beyond the specified holding time.

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-007-03 | 3E-008-04W | 3E-007-05 | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 03 @ 2-4' | 4W @ 2-4' | 05 @ 2-4' | 06W @ 5-7' | 07W @ 1-3' | 08W @ 3-5' | 09W @ 2-4' | 10W @ 2-4' | 10WD @ 2-4' | | | Residential | Industrial |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | |
| Oil and Grease (HEM) | mg/Kg | 130 JB | 86 JB | 120 JB | 590 B | 1300 B | 340 B | 100 JB | 130 JB | 130 JB | | | | |
| TPH-DRO | mg/Kg | 4.2 | 2.8 J | 4.5 | 23 | **190** | 21 | 2.8 J | 3.1 J | ND | a,b,c,d,e | | | |
| TPH-GRO | mg/Kg | ND | ND | ND | 0.32 | 100 | ND | ND | ND | ND | a,b,c,d,e | | | |
| Benzene | ug/Kg | ND H | ND | ND H | ND | 640 J | ND | ND | ND | ND | a,b,c,d,e | | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND H | ND | ND H | ND | 6800 | ND | ND | ND | ND | a,b,c,d,e | | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND H | ND | ND H | ND | 8200 | ND | ND | ND | ND | a,b,c,d,e | | 5.40E+00 | 2.70E+01 |
| Xylenes (Total) | ug/Kg | ND H | ND | ND H | ND | 44000 | ND | ND | ND | ND | a,b,c,d,e | | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND | ND | ND | ND | **59640** | ND | ND | ND | ND | | | | |
| EOX | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | | | | | ND | | | | | | | 8.70E+03 | 3.80E+04 |
| 1,1,2,2-Tetrachloroethane | ug/Kg | | | | | ND | | | | | | | 5.60E-01 | 2.80E+00 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/Kg | | | | | ND | | | | | | | 4.30E+04 | 1.80E+05 |
| 1,1,2-Trichloroethane | ug/Kg | | | | | ND | | | | | | | 1.10E+00 | 5.30E+00 |
| 1,1-Dichloroethane | ug/Kg | | | | | ND | | | | | | | 3.30E+00 | 1.70E+01 |
| 1,1-Dichloroethene | ug/Kg | | | | | ND | | | | | | | 2.40E+02 | 1.10E+03 |
| 1,2,4-Trichlorobenzene | ug/Kg | | | | | ND * | | | | | | | 2.20E+01 | 9.90E+01 |
| 1,2-Dibromo-3-chloropropane | ug/Kg | | | | | ND * | | | | | | | 5.40E-03 | 6.90E-02 |
| 1,2-Dibromoethane | ug/Kg | | | | | ND | | | | | | | 3.40E-02 | 1.70E-01 |
| 1,2-Dichlorobenzene | ug/Kg | | | | | ND | | | | | | | 1.90E+03 | 9.80E+03 |
| 1,2-Dichloroethane | ug/Kg | | | | | ND | | | | | | | 4.30E-01 | 2.20E+00 |
| 1,2-Dichloropropane | ug/Kg | | | | | ND | | | | | | | 9.40E-01 | 4.70E+00 |
| 1,3-Dichlorobenzene | ug/Kg | | | | | ND | | | | | | | | |
| 1,4-Dichlorobenzene | ug/Kg | | | | | ND | | | | | | | 2.40E+00 | 1.20E+01 |
| 2-Butanone | ug/Kg | | | | | ND | | | | | | | 2.80E+04 | 2.00E+05 |
| 2-Hexanone | ug/Kg | | | | | ND | | | | | | | 2.10E+02 | 1.40E+03 |
| 4-Methyl-2-pentanone | ug/Kg | | | | | ND | | | | | | | 5.30E+03 | 5.30E+04 |
| Acetone | ug/Kg | | | | | ND | | | | | | | 6.10E+04 | 6.30E+05 |
| Benzene | ug/Kg | ND H | ND | ND H | ND | 640 J | ND | ND | ND | ND | | | 1.10E+00 | 5.40E+00 |
| Bromodichloromethane | ug/Kg | | | | | ND | | | | | | | 2.70E-01 | 1.40E+00 |
| Bromoform | ug/Kg | | | | | ND | | | | | | | 6.20E+01 | 2.20E+02 |
| Bromomethane | ug/Kg | | | | | ND | | | | | | | 7.30E+00 | 3.20E+01 |
| Carbon disulfide | ug/Kg | | | | | ND | | | | | | | 8.20E+02 | 3.70E+03 |
| Carbon tetrachloride | ug/Kg | | | | | ND | | | | | | | 6.10E-01 | 3.00E+00 |
| Chlorobenzene | ug/Kg | | | | | ND | | | | | | | 2.90E+02 | 1.40E+03 |
| Chloroethane | ug/Kg | | | | | ND | | | | | | | | |
| Chloroform | ug/Kg | | | | | ND | | | | | | | 2.90E-01 | 1.50E+00 |
| Chloromethane | ug/Kg | | | | | ND | | | | | | | 1.20E+02 | 5.00E+02 |
| cis-1,2-Dichloroethene | ug/Kg | | | | | ND | | | | | | | 1.60E+02 | 2.00E+03 |
| cis-1,3-Dichloropropene | ug/Kg | | | | | ND | | | | | | | 1.70E+00 | 8.30E+00 |
| Cyclohexane | ug/Kg | | | | | ND | | | | | | | 7.00E+03 | 2.90E+04 |
| Dibromochloromethane | ug/Kg | | | | | ND | | | | | | | 6.80E-01 | 3.30E+00 |
| Dichlorodifluoromethane | ug/Kg | | | | | ND | | | | | | | 9.40E+01 | 4.00E+02 |
| Ethylbenzene | ug/Kg | ND H | ND | ND H | ND | 8200 | ND | ND | ND | ND | | | 5.40E+00 | 2.70E+01 |
| Isopropylbenzene | ug/Kg | | | | | 660 J | | | | | | | 2.10E+03 | 1.10E+04 |
| Xylenes (total) | ug/Kg | ND H | ND | ND H | ND | 44000 | ND | ND | ND | ND | | | 5.90E+02 | 2.50E+03 |
| Methyl acetate | ug/Kg | | | | | ND | | | | | | | 7.80E+04 | 1.00E+06 |
| Methyl tert-butyl ether | ug/Kg | | | | | ND | | | | | | | 4.30E+01 | 2.20E+02 |
| Methylcyclohexane | ug/Kg | | | | | 370 J | | | | | | | | |
| Methylene chloride | ug/Kg | | | | | ND | | | | | | | 5.60E+01 | 9.60E+02 |
| Styrene | ug/Kg | | | | | ND | | | | | | | 6.30E+03 | 3.60E+04 |

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-007-03 | 3E-008-04W | 3E-007-05 | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 03 @ 2-4' | 4W @ 2-4' | 05 @ 2-4' | 06W @ 5-7' | 07W @ 1-3' | 08W @ 3-5' | 09W @ 2-4' | 10W @ 2-4' | 10WD @ 2-4' | | | Residential | Industrial |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | |
| **Volatile Organic Constituents (Continued) (Method 8260)** | | | | | | | | | | | | | | |
| Tetrachloroethene | ug/Kg | | | | | ND | | | | | | | 2.20E+01 | 1.10E+02 |
| Toluene | ug/Kg | ND H | ND | ND H | ND | 6800 | ND | ND | ND | ND | | | 5.00E+03 | 4.50E+04 |
| trans-1,2-Dichloroethene | ug/Kg | | | | | ND | | | | | | | 1.50E+02 | 6.90E+02 |
| trans-1,3-Dichloropropene | ug/Kg | | | | | ND | | | | | | | | |
| Trichloroethene | ug/Kg | | | | | ND | | | | | | | 9.10E-01 | 6.40E+00 |
| Trichlorofluoromethane | ug/Kg | | | | | ND | | | | | | | 7.90E+02 | 3.40E+03 |
| Vinyl chloride | ug/Kg | | | | | ND | | | | | | | 6.00E-02 | 1.70E+00 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/Kg | | | | | ND | | | | | | | 5.10E+01 | 2.10E+02 |
| 2,4,5-Trichlorophenol | ug/Kg | | | | | ND | | | | | | | 6.10E+03 | 6.20E+04 |
| 2,4,6-Trichlorophenol | ug/Kg | | | | | ND | | | | | | | 4.40E+01 | 1.60E+02 |
| 2,4-Dichlorophenol | ug/Kg | | | | | ND | | | | | | | 1.80E+02 | 1.80E+03 |
| 2,4-Dimethylphenol | ug/Kg | | | | | ND | | | | | | | 1.20E+03 | 1.20E+04 |
| 2,4-Dinitrophenol | ug/Kg | | | | | ND | | | | | | | 1.20E+02 | 1.20E+03 |
| 2,4-Dinitrotoluene | ug/Kg | | | | | ND | | | | | | | 1.60E+00 | 5.50E+00 |
| 2,6-Dinitrotoluene | ug/Kg | | | | | ND | | | | | | | 6.10E+01 | 6.20E+02 |
| 2-Chloronaphthalene | ug/Kg | | | | | ND | | | | | | | 6.30E+03 | 8.20E+04 |
| 2-Chlorophenol | ug/Kg | | | | | ND | | | | | | | 3.90E+02 | 5.10E+03 |
| 2-Methylnaphthalene | ug/Kg | | | | | 1000 | | | | | | | 2.30E+02 | 2.20E+03 |
| 2-Methylphenol | ug/Kg | | | | | ND | | | | | | | | |
| 2-Nitroaniline | ug/Kg | | | | | ND | | | | | | | 6.10E+02 | 6.00E+03 |
| 2-Nitrophenol | ug/Kg | | | | | ND | | | | | | | | |
| 3,3'-dicholorobenzidine | ug/Kg | | | | | ND | | | | | | | 1.10E+00 | 3.80E+00 |
| 3-Nitroaniline | ug/Kg | | | | | ND | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/Kg | | | | | ND | | | | | | | | |
| 4-Bromophenyl-phenylether | ug/Kg | | | | | ND | | | | | | | | |
| 4-Chloro-3-methylphenol | ug/Kg | | | | | ND | | | | | | | | |
| 4-Chloroaniline | ug/Kg | | | | | ND | | | | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/Kg | | | | | ND | | | | | | | | |
| 4 and 3-Methylphenol | ug/Kg | | | | | ND | | | | | | | | |
| 4-Nitroaniline | ug/Kg | | | | | ND | | | | | | | 2.40E+01 | 8.60E+01 |
| 4-Nitrophenol | ug/Kg | | | | | ND | | | | | | | | |
| Acenaphthene | ug/Kg | | | | | ND | | | | | | | 3.40E+03 | 3.30E+04 |
| Acenaphthylene | ug/Kg | | | | | ND | | | | | | | | |
| Acetophenone | ug/Kg | | | | | ND | | | | | | | 7.80E+03 | 1.00E+05 |
| Anthracene | ug/Kg | | | | | ND | | | | | | | 1.70E+04 | 1.70E+05 |
| Atrazine | ug/Kg | | | | | ND | | | | | | | 2.10E+00 | 7.50E+00 |
| Benzaldehyde | ug/Kg | | | | | ND | | | | | | | 7.80E+03 | 1.00E+05 |
| Benzo(a) pyrene | ug/Kg | | | | | ND | | | | | | | 1.50E-02 | 2.10E-01 |
| Benzo(a)anthracene | ug/Kg | | | | | ND | | | | | | | 1.50E-01 | 2.10E+00 |
| Benzo(b) fluoranthene | ug/Kg | | | | | ND | | | | | | | 1.50E-01 | 2.10E+00 |
| Benzo(g,h,i) perylene | ug/Kg | | | | | ND | | | | | | | | |
| Benzo(k) fluoranthene | ug/Kg | | | | | ND | | | | | | | 1.50E+00 | 2.10E+01 |
| Bis(2-chloroethoxy) methane | ug/Kg | | | | | ND | | | | | | | 1.80E+02 | 1.80E+03 |
| Bis(2-chloroethyl) ether | ug/Kg | | | | | ND | | | | | | | 2.10E-01 | 1.00E+00 |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | | | | ND | | | | | | | 3.50E+01 | 1.20E+02 |
| Butylbenzylphthalate | ug/Kg | | | | | ND | | | | | | | 2.60E+02 | 9.10E+02 |
| Caprolactam | ug/Kg | | | | | ND | | | | | | | 3.10E+04 | 3.10E+05 |
| Carbazole | ug/Kg | | | | | ND | | | | | | | | |
| Chrysene | ug/Kg | | | | | ND | | | | | | | 1.50E+01 | 2.10E+02 |

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-007-03 | 3E-008-04W | 3E-007-05 | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 03 @ 2-4' | 4W @ 2-4' | 05 @ 2-4' | 06W @ 5-7' | 07W @ 1-3' | 08W @ 3-5' | 09W @ 2-4' | 10W @ 2-4' | 10WD @ 2-4' | | | Residential | Industrial |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | |
| **Semi-Volatile Constituents (Continued)<br>(Method 8270C)** | | | | | | | | | | | | | | |
| Dibenzo(a,h) anthracene | ug/Kg | | | | | ND | | | | | | | 1.50E-02 | 2.10E-01 |
| Dibenzofuran | ug/Kg | | | | | ND | | | | | | | 7.80E+01 | 1.00E+03 |
| Diethylphthalate | ug/Kg | | | | | ND | | | | | | | 4.90E+04 | 4.90E+05 |
| Dimethylphthalate | ug/Kg | | | | | ND | | | | | | | | |
| Di-n-butylphthalate | ug/Kg | | | | | ND | | | | | | | | |
| Di-n-octylphthalate | ug/Kg | | | | | ND | | | | | | | | |
| Fluoranthene | ug/Kg | | | | | ND | | | | | | | 2.30E+03 | 2.20E+04 |
| Fluorene | ug/Kg | | | | | ND | | | | | | | 2.30E+03 | 2.20E+04 |
| Hexachlorobenzene | ug/Kg | | | | | ND | | | | | | | 3.00E-01 | 1.10E+00 |
| Hexachlorobutadiene | ug/Kg | | | | | ND | | | | | | | 6.20E+00 | 2.20E+01 |
| Hexachlorocyclopentadiene | ug/Kg | | | | | ND | | | | | | | 3.70E+02 | 3.70E+03 |
| Hexachloroethane | ug/Kg | | | | | ND | | | | | | | 1.20E+01 | 4.30E+01 |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | | | | ND | | | | | | | 1.50E-01 | 2.10E+00 |
| Isophorone | ug/Kg | | | | | ND | | | | | | | 5.10E+02 | 1.80E+03 |
| Naphthalene | ug/Kg | | | | | 1700 | | | | | | | 3.60E+00 | 1.80E+01 |
| Nitrobenzene | ug/Kg | | | | | ND | | | | | | | 4.80E+00 | 2.40E+01 |
| N-Nitroso-di-n propylamine | ug/Kg | | | | | ND | | | | | | | 6.90E-02 | 2.50E-01 |
| N-Nitrosodiphenylamine | ug/Kg | | | | | ND | | | | | | | 9.90E+01 | 3.50E+02 |
| Pentachlorophenol | ug/Kg | | | | | ND | | | | | | | 8.90E-01 | 2.70E+00 |
| Phenanthrene | ug/Kg | | | | | ND | | | | | | | | |
| Phenol | ug/Kg | | | | | ND | | | | | | | 1.80E+04 | 1.80E+05 |
| Pyrene | ug/Kg | | | | | ND | | | | | | | 1.70E+03 | 1.70E+04 |
| **RCRA Metals<br>(Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | |
| Arsenic | mg/Kg | | | | ***5.6*** | ***2.2*** | | | | | | | 3.90E-01 | 1.60E+00 |
| Barium | mg/Kg | | | | 16 J | 39 | | | | | | | 1.50E+04 | 1.90E+05 |
| Cadmium | mg/Kg | | | | ND | 0.17 J | | | | | | | 7.00E+01 | 8.00E+02 |
| Chromium | mg/Kg | | | | ***5.5*** | ***14*** | | | | | | | 2.90E-01 | 5.60E+00 |
| Lead | mg/Kg | | | | 11 | 12 | | | | | | | 4.00E+02 | 8.00E+02 |
| Mercury | mg/Kg | | | | ND | 0.062 | | | | | | | 1.00E+01 | 4.30E+01 |
| Selenium | mg/Kg | | | | ND | 0.36 J | | | | | | | 3.90E+02 | 5.10E+03 |
| Silver | mg/Kg | | | | ND | ND | | | | | | | 3.90E+02 | 5.10E+03 |
| **Pesticides and Herbicides<br>(Method 8151)** | | | | | | | | | | | | | | |
| 4,4'-DDD | ug/Kg | | | | | 1.8 J p | | | | | | | 2.00E+00 | 7.20E+00 |
| 4,4'-DDE | ug/Kg | | | | | ND | | | | | | | 1.40E+00 | 5.10E+00 |
| 4,4'-DDT | ug/Kg | | | | | 87 | | | | | | | 1.70E+00 | 7.00E+00 |
| Aldrin | ug/Kg | | | | | ND | | | | | | | 2.90E-02 | 1.00E-01 |
| alpha-BHC | ug/Kg | | | | | ND | | | | | | | 7.70E-02 | 2.70E-01 |
| alpha-Chlordane | ug/Kg | | | | | ND | | | | | | | 1.60E+00 | 6.50E+00 |
| beta-BHC | ug/Kg | | | | | ND | | | | | | | 2.70E-01 | 9.60E-01 |
| delta-BHC | ug/Kg | | | | | ND | | | | | | | | |
| Dieldrin | ug/Kg | | | | | 20 | | | | | | | 3.00E-02 | 1.10E-01 |
| Endosulfan I | ug/Kg | | | | | ND | | | | | | | | |
| Endosulfan II | ug/Kg | | | | | 10 J p | | | | | | | | |
| Endosulfan sulfate | ug/Kg | | | | | 26 p | | | | | | | | |
| Endrin | ug/Kg | | | | | 4.2 J p | | | | | | | 1.80E+01 | 1.80E+02 |
| Endrin aldehyde | ug/Kg | | | | | ND | | | | | | | | |
| Endrin ketone | ug/Kg | | | | | 18 p | | | | | | | | |
| gamma-BHC (Lindane) | ug/Kg | | | | | ND | | | | | | | 5.20E-01 | 2.10E+00 |
| gamma-Chlordane | ug/Kg | | | | | ND | | | | | | | | |
| Heptachlor | ug/Kg | | | | | ND | | | | | | | 1.10E-01 | 3.80E-01 |
| Heptachlor epoxide | ug/Kg | | | | | ND | | | | | | | 5.30E-02 | 1.90E-01 |

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-007-03 | 3E-008-04W | 3E-007-05 | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 03 @ 2-4' | 4W @ 2-4' | 05 @ 2-4' | 06W @ 5-7' | 07W @ 1-3' | 08W @ 3-5' | 09W @ 2-4' | 10W @ 2-4' | 10WD @ 2-4' | | | Residential | Industrial |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | |
| Methoxychlor | ug/Kg | | | | | 26 p | | | | | | | 3.10E+02 | 3.10E+03 |
| Toxaphene | ug/Kg | | | | | ND | | | | | | | 4.40E-01 | 1.60E+00 |

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-007-03 | 3E-008-04W | 3E-007-05 | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 03 @ 2-4' | 4W @ 2-4' | 05 @ 2-4' | 06W @ 5-7' | 07W @ 1-3' | 08W @ 3-5' | 09W @ 2-4' | 10W @ 2-4' | 10WD @ 2-4' | | | Residential | Industrial |
| **Analytical Constituent** | **Units** | **Results**** | | | | | | | | | | | | |
| **PCBs (Method 8082)** | | | | | | | | | | | | | | |
| Aroclor-1016 | ug/Kg | ND H | ND H | ND H | ND | ND | ND H | ND H | ND H | ND H | | | 3.90E+00 | 2.10E+01 |
| Aroclor-1221 | ug/Kg | ND H | ND H | ND H | ND | ND | ND H | ND H | ND H | ND H | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1232 | ug/Kg | ND H | ND H | ND H | ND | ND | ND H | ND H | ND H | ND H | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1242 | ug/Kg | ND H | ND H | ND H | ND | ND | ND H | ND H | ND H | ND H | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1248 | ug/Kg | ND H | ND H | ND H | ND | ND | ND H | ND H | ND H | ND H | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1254 | ug/Kg | ND H | ND H | ND H | ND | ND | ND H | ND H | ND H | ND H | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1260 | ug/Kg | ND H | ND H | ND H | ND | 590 | ND H | ND H | ND H | ND H | | | 2.20E-01 | 7.40E-01 |
| **Total PCBs** | ug/Kg | ND H | ND H | ND H | ND | **590** | ND H | ND H | ND H | ND H | | 50 [2] | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | |
| Arsenic | mg/L | | | | 0.0076 J | | | | | | | 5 | | |
| Barium | mg/L | | | | 0.2 B | | | | | | | 100 | | |
| Cadmium | mg/L | | | | 0.00073 J | | | | | | | 1 | | |
| Chromium | mg/L | | | | 0.0028 J | | | | | | | 5 | | |
| Lead | mg/L | | | | 4.1 | | | | | | | 5 | | |
| Mercury | mg/L | | | | ND | | | | | | | 0.02 | | |
| Selenium | mg/L | | | | 0.0070 JB | | | | | | | 1 | | |
| Silver | mg/L | | | | ND | | | | | | | 5 | | |
| **TCLP VOCs (Methods 1311 & 8260B)** | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | mg/L | | | | ND | | | | | | | 0.7 | | |
| 1,2-Dichloroethane | mg/L | | | | ND | | | | | | | 0.5 | | |
| 1,4-Dichlorobenzene | mg/L | | | | ND | | | | | | | 7.5 | | |
| Benzene | mg/L | | | | ND | | | | | | | 0.5 | | |
| Carbon tetrachloride | mg/L | | | | ND | | | | | | | 0.5 | | |
| Chlorobenzene | mg/L | | | | ND | | | | | | | 100 | | |
| Chloroform | mg/L | | | | ND | | | | | | | 6 | | |
| Methyl ethyl ketone | mg/L | | | | ND | | | | | | | 200 | | |
| Tetrachloroethene | mg/L | | | | ND | | | | | | | 0.7 | | |
| Trichloroethene | mg/L | | | | ND | | | | | | | 0.5 | | |
| Vinyl chloride | mg/L | | | | ND | | | | | | | 0.2 | | |
| **TCLP SVOC (Methods 1311 & 8270C)** | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene | mg/L | | | | ND | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg/L | | | | ND | | | | | | | 400 | | |
| 2,4,6-Trichlorophenol | mg/L | | | | ND | | | | | | | 2 | | |
| 2,4-Dinitrotoluene | mg/L | | | | ND | | | | | | | 0.13 | | |
| Hexachloro-1,3-butadiene | mg/L | | | | ND | | | | | | | 0.5 | | |
| Hexachlorobenzene | mg/L | | | | ND | | | | | | | 0.13 | | |
| Hexachloroethane | mg/L | | | | ND | | | | | | | 3 | | |
| m-p Cresol (3 & 4-Methylphenol) | mg/L | | | | ND | | | | | | | 200 | | |
| Nitrobenzene | mg/L | | | | ND | | | | | | | 2 | | |
| o-Cresol (2-Methylphenol) | mg/L | | | | ND | | | | | | | 200 | | |
| Pentachlorophenol | mg/L | | | | ND | | | | | | | 100 | | |
| Pyridine | mg/L | | | | ND | | | | | | | 5 | | |
| **General Chemistry** | | | | | | | | | | | | | | |
| Cyanide | mg/Kg | | | | ND | | | | | | | < 250 mg/kg | | |
| Sulfide | mg/Kg | | | | 24 J | | | | | | | < 500mg/kg | | |
| pH | | | | | 6.25 H | | | | | | | <2 or >12.5 | | |
| Ignitability (flashpoint) | F | | | | >140 | | | | | | | < 140F | | |

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-007-03 | 3E-008-04W | 3E-007-05 | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 03 @ 2-4' | 4W @ 2-4' | 05 @ 2-4' | 06W @ 5-7' | 07W @ 1-3' | 08W @ 3-5' | 09W @ 2-4' | 10W @ 2-4' | 10WD @ 2-4' | | | Residential | Industrial |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

** Bold values exceed Residential Risk Based Concentrations

Bold and Italic values exceed Industrial Risk Based Concentrations

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.

b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.

c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.

d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.

e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

[1] 40 CFR Part 261.4

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-13 | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-16 | 3E-012-17W | 3E-012-19W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 13 @ 2-4' | 14W @ 2-4' | 14WD @ 2-4' | 16 @ 2-4' | 17W @ 2-4' | 19W @ 2-4' | | | | |
| Analytical Constituent | Units | Results** | | | | | | | | Residential | Industrial |
| Oil and Grease | mg/Kg | 58 JB | 41 JB | 55 JB | 34 JB | 57 JB | 46 | | | | |
| TPH-DRO | mg/Kg | 3.9 | 5.5 | ND | ND | ND | ND | a,b,c,d,e | | | |
| TPH-GRO | mg/Kg | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| Benzene | ug/Kg | ND H | ND | ND | ND | ND | ND | a,b,c,d,e | | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND H | ND | ND | ND | ND | ND | a,b,c,d,e | | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND H | ND | ND | ND | ND | ND | a,b,c,d,e | | 5.40E+00 | 2.70E+01 |
| Xylenes | ug/Kg | ND H | ND | ND | ND | ND | ND | a,b,c,d,e | | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND H | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| EOX | mg/Kg | ND H | ND | ND | ND | | | a,b,c,d,e | | | |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | | | | | ND | ND | | | 8.70E+03 | 3.80E+04 |
| 1,1,2,2-Tetrachloroethane | ug/Kg | | | | | ND | ND | | | 5.60E-01 | 2.80E+00 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/Kg | | | | | ND | ND | | | 4.30E+04 | 1.80E+05 |
| 1,1,2-Trichloroethane | ug/Kg | | | | | ND | ND | | | 1.10E+00 | 5.30E+00 |
| 1,1-Dichloroethane | ug/Kg | | | | | ND | ND | | | 3.30E+00 | 1.70E+01 |
| 1,1-Dichloroethene | ug/Kg | | | | | ND | ND | | | 2.40E+02 | 1.10E+03 |
| 1,2,4-Trichlorobenzene | ug/Kg | | | | | ND | ND | | | 2.20E+01 | 9.90E+01 |
| 1,2-Dibromo-3-chloropropane | ug/Kg | | | | | ND | ND | | | 5.40E-03 | 6.90E-02 |
| 1,2-Dibromoethane | ug/Kg | | | | | ND | ND | | | 3.40E-02 | 1.70E-01 |
| 1,2-Dichlorobenzene | ug/Kg | | | | | ND | ND | | | 1.90E+03 | 9.80E+03 |
| 1,2-Dichloroethane | ug/Kg | | | | | ND | ND | | | 4.30E-01 | 2.20E+00 |
| 1,2-Dichloropropane | ug/Kg | | | | | ND | ND | | | 9.40E-01 | 4.70E+00 |
| 1,3-Dichlorobenzene | ug/Kg | | | | | ND | ND | | | | |
| 1,4-Dichlorobenzene | ug/Kg | | | | | ND | ND | | | 2.40E+00 | 1.20E+01 |
| 2-Butanone | ug/Kg | | | | | ND | ND | | | 2.80E+04 | 2.00E+05 |
| 2-Hexanone | ug/Kg | | | | | ND | ND | | | 2.10E+02 | 1.40E+03 |
| 4-Methyl-2-pentanone | ug/Kg | | | | | ND | ND | | | 5.30E+03 | 5.30E+04 |
| Acetone | ug/Kg | | | | | ND | ND | | | 6.10E+04 | 6.30E+05 |
| Benzene | ug/Kg | ND H | ND | ND | ND | ND | ND | | | 1.10E+00 | 5.40E+00 |
| Bromodichloromethane | ug/Kg | | | | | ND | ND | | | 2.70E-01 | 1.40E+00 |
| Bromoform | ug/Kg | | | | | ND | ND | | | 6.20E+01 | 2.20E+02 |
| Bromomethane | ug/Kg | | | | | ND | ND | | | 7.30E+00 | 3.20E+01 |
| Carbon disulfide | ug/Kg | | | | | ND | ND | | | 8.20E+02 | 3.70E+03 |
| Carbon tetrachloride | ug/Kg | | | | | ND* | ND* | | | 6.10E-01 | 3.00E+00 |
| Chlorobenzene | ug/Kg | | | | | ND | ND* | | | 2.90E+02 | 1.40E+03 |
| Chloroethane | ug/Kg | | | | | ND | ND* | | | | |
| Chloroform | ug/Kg | | | | | ND | ND* | | | 2.90E-01 | 1.50E+00 |
| Chloromethane | ug/Kg | | | | | ND | ND* | | | 1.20E+02 | 5.00E+02 |
| cis-1,2-Dichloroethene | ug/Kg | | | | | ND | ND* | | | 1.60E+02 | 2.00E+03 |
| cis-1,3-Dichloropropene | ug/Kg | | | | | ND | ND* | | | 1.70E+00 | 8.30E+00 |
| Cyclohexane | ug/Kg | | | | | ND | ND* | | | 7.00E+03 | 2.90E+04 |
| Dibromochloromethane | ug/Kg | | | | | ND | ND* | | | 6.80E-01 | 3.30E+00 |
| Dichlorodifluoromethane | ug/Kg | | | | | ND | ND* | | | 9.40E+01 | 4.00E+02 |
| Ethylbenzene | ug/Kg | ND H | ND | ND | ND | ND | ND* | | | 5.40E+00 | 2.70E+01 |

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-13 | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-16 | 3E-012-17W | 3E-012-19W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 13 @ 2-4' | 14W @ 2-4' | 14WD @ 2-4' | 16 @ 2-4' | 17W @ 2-4' | 19W @ 2-4' | | | | |
| Analytical Constituent | Units | Results** | | | | | | | | Residential | Industrial |
| **Volatile Organic Constituents (Continued) (Method 8260)** | | | | | | | | | | | |
| Isopropylbenzene | ug/Kg | | | | | ND | ND* | | | 2.10E+03 | 1.10E+04 |
| Xylenes (Total) | ug/Kg | ND H | ND | ND | ND | ND | ND | | | 5.90E+02 | 2.50E+03 |
| Methyl acetate | ug/Kg | | | | | ND | ND | | | 7.80E+04 | 1.00E+06 |
| Methyl tert-butyl ether | ug/Kg | | | | | ND | ND | | | 4.30E+01 | 2.20E+02 |
| Methylcyclohexane | ug/Kg | | | | | ND | ND | | | | |
| Methylene chloride | ug/Kg | | | | | ND | ND | | | 5.60E+01 | 9.60E+02 |
| Styrene | ug/Kg | | | | | ND | ND | | | 6.30E+03 | 3.60E+04 |
| Tetrachloroethene | ug/Kg | | | | | ND | ND | | | 2.20E+01 | 1.10E+02 |
| Toluene | ug/Kg | ND H | ND | ND | ND | ND | ND | | | 5.00E+03 | 4.50E+04 |
| trans-1,2-Dichloroethene | ug/Kg | | | | | ND | ND | | | 1.50E+02 | 6.90E+02 |
| trans-1,3-Dichloropropene | ug/Kg | | | | | ND | ND | | | | |
| Trichloroethene | ug/Kg | | | | | ND | ND | | | 9.10E-01 | 6.40E+00 |
| Trichlorofluoromethane | ug/Kg | | | | | ND | ND | | | 7.90E+02 | 3.40E+03 |
| Vinyl chloride | ug/Kg | | | | | ND | ND | | | 6.00E-02 | 1.70E+00 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/Kg | | | | | ND | ND | | | 5.10E+01 | 2.10E+02 |
| 2,4,5-Trichlorophenol | ug/Kg | | | | | ND | ND | | | 6.10E+03 | 6.20E+04 |
| 2,4,6-Trichlorophenol | ug/Kg | | | | | ND | ND | | | 4.40E+01 | 1.60E+02 |
| 2,4-Dichlorophenol | ug/Kg | | | | | ND | ND | | | 1.80E+02 | 1.80E+03 |
| 2,4-Dimethylphenol | ug/Kg | | | | | ND | ND | | | 1.20E+03 | 1.20E+04 |
| 2,4-Dinitrophenol | ug/Kg | | | | | ND | ND | | | 1.20E+02 | 1.20E+03 |
| 2,4-Dinitrotoluene | ug/Kg | | | | | ND | ND | | | 1.60E+00 | 5.50E+00 |
| 2,6-Dinitrotoluene | ug/Kg | | | | | ND | ND | | | 6.10E+01 | 6.20E+02 |
| 2-Chloronaphthalene | ug/Kg | | | | | ND | ND | | | 6.30E+03 | 8.20E+04 |
| 2-Chlorophenol | ug/Kg | | | | | ND | ND | | | 3.90E+02 | 5.10E+03 |
| 2-Methylnaphthalene | ug/Kg | | | | | ND | ND | | | 2.30E+02 | 2.20E+03 |
| 2-Methylphenol | ug/Kg | | | | | ND | ND | | | | |
| 2-Nitroaniline | ug/Kg | | | | | ND | ND | | | 6.10E+02 | 6.00E+03 |
| 2-Nitrophenol | ug/Kg | | | | | ND | ND | | | | |
| 3,3'-dicholorobenzidine | ug/Kg | | | | | ND | ND | | | 1.10E+00 | 3.80E+00 |
| 3-Nitroaniline | ug/Kg | | | | | ND | ND | | | | |
| 4,6-Dinitro-2-methylphenol | ug/Kg | | | | | ND | ND | | | | |
| 4-Bromophenyl-phenylether | ug/Kg | | | | | ND | ND | | | | |
| 4-Chloro-3-methylphenol | ug/Kg | | | | | ND | ND | | | | |
| 4-Chloroaniline | ug/Kg | | | | | ND | ND | | | | |
| 4-Chlorophenyl-phenyl ether | ug/Kg | | | | | ND | ND | | | | |
| 4 and 3-Methylphenol | ug/Kg | | | | | ND | ND | | | | |
| 4-Nitroaniline | ug/Kg | | | | | ND | ND | | | 2.40E+01 | 8.60E+01 |
| 4-Nitrophenol | ug/Kg | | | | | ND | ND | | | | |

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-13 | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-16 | 3E-012-17W | 3E-012-19W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 13 @ 2-4' | 14W @ 2-4' | 14WD @ 2-4' | 16 @ 2-4' | 17W @ 2-4' | 19W @ 2-4' | | | | |
| Analytical Constituent | Units | Results** | | | | | | | | Residential | Industrial |
| Semi-Volatile Constituents (Continued) (Method 8270C) | | | | | | | | | | | |
| Acenaphthene | ug/Kg | | | | | ND | ND | | | 3.40E+03 | 3.30E+04 |
| Acenaphthylene | ug/Kg | | | | | ND | ND | | | | |
| Acetophenone | ug/Kg | | | | | ND | ND | | | 7.80E+03 | 1.00E+05 |
| Anthracene | ug/Kg | | | | | ND | ND | | | 1.70E+04 | 1.70E+05 |
| Atrazine | ug/Kg | | | | | ND | ND | | | 2.10E+00 | 7.50E+00 |
| Benzaldehyde | ug/Kg | | | | | ND | ND | | | 7.80E+03 | 1.00E+05 |
| Benzo(a) pyrene | ug/Kg | | | | | ND | ND | | | 1.50E-02 | 2.10E-01 |
| Benzo(a)anthracene | ug/Kg | | | | | ND | ND | | | 1.50E-01 | 2.10E+00 |
| Benzo(b) fluoranthene | ug/Kg | | | | | ND | ND | | | 1.50E-01 | 2.10E+00 |
| Benzo(g,h,i) perylene | ug/Kg | | | | | ND | ND | | | | |
| Benzo(k) fluoranthene | ug/Kg | | | | | ND | ND | | | 1.50E+00 | 2.10E+01 |
| Bis(2-chloroethoxy) methane | ug/Kg | | | | | ND | ND | | | 1.80E+02 | 1.80E+03 |
| Bis(2-chloroethyl) ether | ug/Kg | | | | | ND | ND | | | 2.10E-01 | 1.00E+00 |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | | | | ND | ND | | | 3.50E+01 | 1.20E+02 |
| Butylbenzylphthalate | ug/Kg | | | | | ND | ND | | | 2.60E+02 | 9.10E+02 |
| Caprolactam | ug/Kg | | | | | ND | ND | | | 3.10E+04 | 3.10E+05 |
| Carbazole | ug/Kg | | | | | ND | ND | | | | |
| Chrysene | ug/Kg | | | | | ND | ND | | | 1.50E+01 | 2.10E+02 |
| Dibenzo(a,h) anthracene | ug/Kg | | | | | ND | ND | | | 1.50E-02 | 2.10E-01 |
| Dibenzofuran | ug/Kg | | | | | ND | ND | | | 7.80E+01 | 1.00E+03 |
| Diethylphthalate | ug/Kg | | | | | ND | ND | | | 4.90E+04 | 4.90E+05 |
| Dimethylphthalate | ug/Kg | | | | | ND | ND | | | | |
| Di-n-butylphthalate | ug/Kg | | | | | ND | ND | | | | |
| Di-n-octylphthalate | ug/Kg | | | | | ND | ND | | | | |
| Fluoranthene | ug/Kg | | | | | ND | ND | | | 2.30E+03 | 2.20E+04 |
| Fluorene | ug/Kg | | | | | ND | ND | | | 2.30E+03 | 2.20E+04 |
| Hexachlorobenzene | ug/Kg | | | | | ND | ND | | | 3.00E-01 | 1.10E+00 |
| Hexachlorobutadiene | ug/Kg | | | | | ND | ND | | | 6.20E+00 | 2.20E+01 |
| Hexachlorocyclopentadiene | ug/Kg | | | | | ND | ND | | | 3.70E+02 | 3.70E+03 |
| Hexachloroethane | ug/Kg | | | | | ND | ND | | | 1.20E+01 | 4.30E+01 |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | | | | ND | ND | | | 1.50E-01 | 2.10E+00 |
| Isophorone | ug/Kg | | | | | ND | ND | | | 5.10E+02 | 1.80E+03 |
| Naphthalene | ug/Kg | | | | | ND | ND | | | 3.60E+00 | 1.80E+01 |
| Nitrobenzene | ug/Kg | | | | | ND | ND | | | 4.80E+00 | 2.40E+01 |
| N-Nitroso-di-n propylamine | ug/Kg | | | | | ND | ND | | | 6.90E-02 | 2.50E-01 |
| N-Nitrosodiphenylamine | ug/Kg | | | | | ND | ND | | | 9.90E+01 | 3.50E+02 |
| Pentachlorophenol | ug/Kg | | | | | ND | ND | | | 8.90E-01 | 2.70E+00 |
| Phenanthrene | ug/Kg | | | | | ND | ND | | | | |
| Phenol | ug/Kg | | | | | ND | ND | | | 1.80E+04 | 1.80E+05 |
| Pyrene | ug/Kg | | | | | ND | ND | | | 1.70E+03 | 1.70E+04 |

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-13 | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-16 | 3E-012-17W | 3E-012-19W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 13 @ 2-4' | 14W @ 2-4' | 14WD @ 2-4' | 16 @ 2-4' | 17W @ 2-4' | 19W @ 2-4' | | | | |
| Analytical Constituent | Units | Results** | | | | | | | | Residential | Industrial |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | |
| Arsenic | mg/Kg | | | | | **1.1** | ***4.3*** | | | 3.90E-01 | 1.60E+00 |
| Barium | mg/Kg | | | | | 35 | 57 | | | 1.50E+04 | 1.90E+05 |
| Cadmium | mg/Kg | | | | | 0.032 J | 0.031 J | | | 7.00E+01 | 8.00E+02 |
| Chromium | mg/Kg | | | | | ***8.3*** | ***16*** | | | 2.90E-01 | 5.60E+00 |
| Lead | mg/Kg | | | | | 7.8 | 10 | | | 4.00E+02 | 8.00E+02 |
| Mercury | mg/Kg | | | | | 0.026 J | 0.029 J | | | 1.00E+01 | 4.30E+01 |
| Selenium | mg/Kg | | | | | 0.46 JB | 0.74 B | | | 3.90E+02 | 5.10E+03 |
| Silver | mg/Kg | | | | | ND | ND | | | 3.90E+02 | 5.10E+03 |
| **PCBs (Method 8082)** | | | | | | | | | | | |
| Aroclor-1016 | ug/Kg | | | | | ND | ND | | | 3.90E+00 | 2.10E+01 |
| Aroclor-1221 | ug/Kg | | | | | ND | ND | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1232 | ug/Kg | | | | | ND | ND | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1242 | ug/Kg | | | | | ND | ND | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1248 | ug/Kg | | | | | ND | ND | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1254 | ug/Kg | | | | | ND | ND | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1260 | ug/Kg | | | | | ND | ND | | | 2.20E-01 | 7.40E-01 |
| **Total PCBs** | ug/Kg | | | | | ND | ND | | 50 [2] | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | |
| Arsenic | mg/L | | | | | | 0.02 J | | 5 | | |
| Barium | mg/L | | | | | | 0.28 B | | 100 | | |
| Cadmium | mg/L | | | | | | 0.0003 JB | | 1 | | |
| Chromium | mg/L | | | | | | 0.0041 J | | 5 | | |
| Lead | mg/L | | | | | | 0.03 J | | 5 | | |
| Mercury | mg/L | | | | | | ND | | 0.02 | | |
| Selenium | mg/L | | | | | | 0.012 JB | | 1 | | |
| Silver | mg/L | | | | | | ND | | 5 | | |
| **TCLP VOCs (Methods 1311 & 8260B)** | | | | | | | | | | | |
| 1,1-Dichloroethene | mg/L | | | | | | ND | | 0.7 | | |
| 1,2-Dichloroethane | mg/L | | | | | | ND | | 0.5 | | |
| 1,4-Dichlorobenzene | mg/L | | | | | | ND | | 7.5 | | |
| Benzene | mg/L | | | | | | ND | | 0.5 | | |
| Carbon tetrachloride | mg/L | | | | | | ND | | 0.5 | | |
| Chlorobenzene | mg/L | | | | | | ND | | 100 | | |
| Chloroform | mg/L | | | | | | ND | | 6 | | |
| Methyl ethyl ketone | mg/L | | | | | | ND | | 200 | | |
| Tetrachloroethene | mg/L | | | | | | ND | | 0.7 | | |
| Trichloroethene | mg/L | | | | | | ND | | 0.5 | | |
| Vinyl chloride | mg/L | | | | | | ND | | 0.2 | | |

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-13 | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-16 | 3E-012-17W | 3E-012-19W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 13 @ 2-4' | 14W @ 2-4' | 14WD @ 2-4' | 16 @ 2-4' | 17W @ 2-4' | 19W @ 2-4' | | | | |
| Analytical Constituent | Units | Results** | | | | | | | | Residential | Industrial |
| TCLP SVOC (Methods 1311 & 8270C) | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg/L | | | | | | ND | | 400 | | |
| 2,4,6-Trichlorophenol | mg/L | | | | | | ND | | 2 | | |
| 2,4-Dinitrotoluene | mg/L | | | | | | ND | | 0.13 | | |
| Hexachloro-1,3-butadiene | mg/L | | | | | | ND | | 0.5 | | |
| Hexachlorobenzene | mg/L | | | | | | ND | | 0.13 | | |
| Hexachloroethane | mg/L | | | | | | ND | | 3 | | |
| m-Cresol (3-Methylphenol) | mg/L | | | | | | ND | | 200 | | |
| Nitrobenzene | mg/L | | | | | | ND | | 2 | | |
| o-Cresol (2-Methylphenol) | mg/L | | | | | | ND | | 200 | | |
| p-Cresol (4-Methylphenol) | mg/L | | | | | | ND | | 200 | | |
| Pentachlorophenol | mg/L | | | | | | ND | | 100 | | |
| Pyridine | mg/L | | | | | | ND * | | 5 | | |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

** Bold values exceed Residential Risk Based Concentrations

Bold and Italic values exceed Industrial Risk Based Concentrations

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.

b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.

c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.

d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.

e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

[1] 40 CFR Part 261.4

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-20 | 3E-015-21W | 3E-015-22W | 3E-VDOT-23W | 3E-017-24W | 3E-VDOT-25W | 3E-VDOT-26W | 3E-VDOT-68W | 3E-015-80 | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 20 @ 2-4' | 21W @ 2-4' | 22W @ 2-4' | 23W @ 2-4' | 24W @ 2-4' | 25W @ 2-4' | 26W @ 2-4' | 68W @ 2-4' | 80 @ 6-12" | | | Residential | Industrial |
| Analytical Constituent | Units | Results | | | | | | | | | | | | |
| Oil and Grease | mg/Kg | 67 | ND | ND | 44 J B | ND | 57 J B | ND | 68 J B | 270 | | | | |
| TPH-DRO | mg/Kg | ND | ND | ND | 4.9 | ND | 8.7 | 8.3 | 7.8 | 140 | a,b,c,d,e | | | |
| TPH-GRO | mg/Kg | ND | ND* | ND * | ND | ND * | ND | ND | ND | ND* | a,b,c,d,e | | | |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND H | ND | a,b,c,d,e | | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND H | ND | a,b,c,d,e | | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND H | ND | a,b,c,d,e | | 5.40E+00 | 2.70E+01 |
| Xylenes | ug/Kg | ND | ND | 3.1 J | ND | ND | ND | ND | ND H | ND | a,b,c,d,e | | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND | ND | 3.1 | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| EOX | mg/Kg | ND | | ND | | ND | ND | | ND | ND | a,b,c,d,e | | | |
| Volatile Organic Constituents (Method 8260) | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | | ND | | ND | | | ND | | | | | 8.70E+03 | 3.80E+04 |
| 1,1,2,2-Tetrachloroethane | ug/Kg | | ND | | ND | | | ND | | | | | 5.60E-01 | 2.80E+00 |
| 1,1,2-Trichloro-1,2,2-trifluoroethan | ug/Kg | | ND | | ND | | | ND | | | | | 4.30E+04 | 1.80E+05 |
| 1,1,2-Trichloroethane | ug/Kg | | ND | | ND | | | ND | | | | | 1.10E+00 | 5.30E+00 |
| 1,1-Dichloroethane | ug/Kg | | ND | | ND | | | ND | | | | | 3.30E+00 | 1.70E+01 |
| 1,1-Dichloroethene | ug/Kg | | ND | | ND | | | ND | | | | | 2.40E+02 | 1.10E+03 |
| 1,2,4-Trichlorobenzene | ug/Kg | | ND | | ND | | | ND | | | | | 2.20E+01 | 9.90E+01 |
| 1,2-Dibromo-3-chloropropane | ug/Kg | | ND | | ND | | | ND | | | | | 5.40E-03 | 6.90E-02 |
| 1,2-Dibromoethane | ug/Kg | | ND | | ND | | | ND | | | | | 3.40E-02 | 1.70E-01 |
| 1,2-Dichlorobenzene | ug/Kg | | ND | | ND | | | ND | | | | | 1.90E+03 | 9.80E+03 |
| 1,2-Dichloroethane | ug/Kg | | ND | | ND | | | ND | | | | | 4.30E-01 | 2.20E+00 |
| 1,2-Dichloropropane | ug/Kg | | ND | | ND | | | ND | | | | | 9.40E-01 | 4.70E+00 |
| 1,3-Dichlorobenzene | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 1,4-Dichlorobenzene | ug/Kg | | ND | | ND | | | ND | | | | | 2.40E+00 | 1.20E+01 |
| 2-Butanone | ug/Kg | | ND | | ND | | | ND | | | | | 2.80E+04 | 2.00E+05 |
| 2-Hexanone | ug/Kg | | ND | | ND | | | ND | | | | | 2.10E+02 | 1.40E+03 |
| 4-Methyl-2-pentanone | ug/Kg | | ND | | ND | | | ND | | | | | 5.30E+03 | 5.30E+04 |
| Acetone | ug/Kg | | ND | | ND | | | ND | | | | | 6.10E+04 | 6.30E+05 |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND H | ND | | | 1.10E+00 | 5.40E+00 |
| Bromodichloromethane | ug/Kg | | ND | | ND | | | ND | | | | | 2.70E-01 | 1.40E+00 |
| Bromoform | ug/Kg | | ND | | ND | | | ND | | | | | 6.20E+01 | 2.20E+02 |
| Bromomethane | ug/Kg | | ND | | ND | | | ND | | | | | 7.30E+00 | 3.20E+01 |
| Carbon disulfide | ug/Kg | | ND | | ND | | | ND | | | | | 8.20E+02 | 3.70E+03 |
| Carbon tetrachloride | ug/Kg | | ND | | ND | | | ND | | | | | 6.10E-01 | 3.00E+00 |
| Chlorobenzene | ug/Kg | | ND | | ND | | | ND | | | | | 2.90E+02 | 1.40E+03 |
| Chloroethane | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Chloroform | ug/Kg | | ND | | ND | | | ND | | | | | 2.90E-01 | 1.50E+00 |
| Chloromethane | ug/Kg | | ND | | ND | | | ND | | | | | 1.20E+02 | 5.00E+02 |
| cis-1,2-Dichloroethene | ug/Kg | | ND | | ND | | | ND | | | | | 1.60E+02 | 2.00E+03 |
| cis-1,3-Dichloropropene | ug/Kg | | ND | | ND | | | ND | | | | | 1.70E+00 | 8.30E+00 |
| Cyclohexane | ug/Kg | | ND | | ND | | | ND | | | | | 7.00E+03 | 2.90E+04 |
| Dibromochloromethane | ug/Kg | | ND | | ND | | | ND | | | | | 6.80E-01 | 3.30E+00 |
| Dichlorodifluoromethane | ug/Kg | | ND | | ND | | | ND | | | | | 9.40E+01 | 4.00E+02 |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND H | ND | | | 5.40E+00 | 2.70E+01 |
| Isopropylbenzene | ug/Kg | | ND | | ND | | | ND | | | | | 2.10E+03 | 1.10E+04 |
| Xylenes (Total) | ug/Kg | ND | ND | 3.1 J | ND | | | ND | | | | | 5.90E+02 | 2.50E+03 |
| Methyl acetate | ug/Kg | | ND | | ND | | | ND | | | | | 7.80E+04 | 1.00E+06 |
| Methyl tert-butyl ether | ug/Kg | | ND | | ND | | | ND | | | | | 4.30E+01 | 2.20E+02 |
| Methylcyclohexane | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Methylene chloride | ug/Kg | | ND | | ND | | | ND | | | | | 5.60E+01 | 9.60E+02 |
| Styrene | ug/Kg | | ND | | ND | | | ND | | | | | 6.30E+03 | 3.60E+04 |

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-20 | 3E-015-21W | 3E-015-22W | 3E-VDOT-23W | 3E-017-24W | 3E-VDOT-25W | 3E-VDOT-26W | 3E-VDOT-68W | 3E-015-80 | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 20 @ 2-4' | 21W @ 2-4' | 22W @ 2-4' | 23W @ 2-4' | 24W @ 2-4' | 25W @ 2-4' | 26W @ 2-4' | 68W @ 2-4' | 80 @ 6-12" | | | Residential | Industrial |
| Analytical Constituent | Units | Results | | | | | | | | | | | | |
| **Volatile Organic Constituents (Continued) (Method 8260)** | | | | | | | | | | | | | | |
| Tetrachloroethene | ug/Kg | | ND | | ND | | | ND | | | | | 2.20E+01 | 1.10E+02 |
| Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND H | ND | | | 5.00E+03 | 4.50E+04 |
| trans-1,2-Dichloroethene | ug/Kg | | ND | | ND | | | ND | | | | | 1.50E+02 | 6.90E+02 |
| trans-1,3-Dichloropropene | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Trichloroethene | ug/Kg | | ND | | ND | | | ND | | | | | 9.10E-01 | 6.40E+00 |
| Trichlorofluoromethane | ug/Kg | | ND | | ND | | | ND | | | | | 7.90E+02 | 3.40E+03 |
| Vinyl chloride | ug/Kg | | ND | | ND | | | ND | | | | | 6.00E-02 | 1.70E+00 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/Kg | | ND | | ND | | | ND | | | | | 5.10E+01 | 2.10E+02 |
| 2,4,5-Trichlorophenol | ug/Kg | | ND | | ND | | | ND | | | | | 6.10E+03 | 6.20E+04 |
| 2,4,6-Trichlorophenol | ug/Kg | | ND | | ND | | | ND | | | | | 4.40E+01 | 1.60E+02 |
| 2,4-Dichlorophenol | ug/Kg | | ND | | ND | | | ND | | | | | 1.80E+02 | 1.80E+03 |
| 2,4-Dimethylphenol | ug/Kg | | ND | | ND | | | ND | | | | | 1.20E+03 | 1.20E+04 |
| 2,4-Dinitrophenol | ug/Kg | | ND | | ND | | | ND | | | | | 1.20E+02 | 1.20E+03 |
| 2,4-Dinitrotoluene | ug/Kg | | ND | | ND | | | ND | | | | | 1.60E+00 | 5.50E+00 |
| 2,6-Dinitrotoluene | ug/Kg | | ND | | ND | | | ND | | | | | 6.10E+01 | 6.20E+02 |
| 2-Chloronaphthalene | ug/Kg | | ND | | ND | | | ND | | | | | 6.30E+03 | 8.20E+04 |
| 2-Chlorophenol | ug/Kg | | ND | | ND | | | ND | | | | | 3.90E+02 | 5.10E+03 |
| 2-Methylnaphthalene | ug/Kg | | ND | | ND | | | ND | | | | | 2.30E+02 | 2.20E+03 |
| 2-Methylphenol | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 2-Nitroaniline | ug/Kg | | ND | | ND | | | ND | | | | | 6.10E+02 | 6.00E+03 |
| 2-Nitrophenol | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 3,3'-dicholorobenzidine | ug/Kg | | ND | | ND | | | ND | | | | | 1.10E+00 | 3.80E+00 |
| 3-Nitroaniline | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 4-Bromophenyl-phenylether | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 4-Chloro-3-methylphenol | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 4-Chloroaniline | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 4 and 3-Methylphenol | ug/Kg | | ND | | ND | | | ND | | | | | | |
| 4-Nitroaniline | ug/Kg | | ND | | ND | | | ND | | | | | 2.40E+01 | 8.60E+01 |
| 4-Nitrophenol | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Acenaphthene | ug/Kg | | ND | | ND | | | ND | | | | | 3.40E+03 | 3.30E+04 |
| Acenaphthylene | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Acetophenone | ug/Kg | | ND | | ND | | | ND | | | | | 7.80E+03 | 1.00E+05 |
| Anthracene | ug/Kg | | ND | | ND | | | ND | | | | | 1.70E+04 | 1.70E+05 |
| Atrazine | ug/Kg | | ND | | ND | | | ND | | | | | 2.10E+00 | 7.50E+00 |
| Benzaldehyde | ug/Kg | | ND | | ND | | | ND | | | | | 7.80E+03 | 1.00E+05 |
| Benzo(a) pyrene | ug/Kg | | ND | | ND | | | ND | | | | | 1.50E-02 | 2.10E-01 |
| Benzo(a)anthracene | ug/Kg | | ND | | ND | | | ND | | | | | 1.50E-01 | 2.10E+00 |
| Benzo(b) fluoranthene | ug/Kg | | ND | | ND | | | ND | | | | | 1.50E-01 | 2.10E+00 |
| Benzo(g,h,i) perylene | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Benzo(k) fluoranthene | ug/Kg | | ND | | ND | | | ND | | | | | 1.50E+00 | 2.10E+01 |
| Bis(2-chloroethoxy) methane | ug/Kg | | ND | | ND | | | ND | | | | | 1.80E+02 | 1.80E+03 |
| Bis(2-chloroethyl) ether | ug/Kg | | ND | | ND | | | ND | | | | | 2.10E-01 | 1.00E+00 |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | ND | | ND | | | ND | | | | | 3.50E+01 | 1.20E+02 |
| Butylbenzylphthalate | ug/Kg | | ND | | ND | | | ND | | | | | 2.60E+02 | 9.10E+02 |
| Caprolactam | ug/Kg | | ND | | ND | | | ND | | | | | 3.10E+04 | 3.10E+05 |
| Carbazole | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Chrysene | ug/Kg | | ND | | ND | | | ND | | | | | 1.50E+01 | 2.10E+02 |
| **Semi-Volatile Constituents (Continued) (Method 8270C)** | | | | | | | | | | | | | | |

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-20 | 3E-015-21W | 3E-015-22W | 3E-VDOT-23W | 3E-017-24W | 3E-VDOT-25W | 3E-VDOT-26W | 3E-VDOT-68W | 3E-015-80 | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 20 @ 2-4' | 21W @ 2-4' | 22W @ 2-4' | 23W @ 2-4' | 24W @ 2-4' | 25W @ 2-4' | 26W @ 2-4' | 68W @ 2-4' | 80 @ 6-12" | | | Residential | Industrial |
| **Analytical Constituent** | **Units** | **Results** | | | | | | | | | | | | |
| Dibenzo(a,h) anthracene | ug/Kg | | ND | | ND | | | ND | | | | | 1.50E-02 | 2.10E-01 |
| Dibenzofuran | ug/Kg | | ND | | ND | | | ND | | | | | 7.80E+01 | 1.00E+03 |
| Diethylphthalate | ug/Kg | | ND | | ND | | | ND | | | | | 4.90E+04 | 4.90E+05 |
| Dimethylphthalate | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Di-n-butylphthalate | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Di-n-octylphthalate | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Fluoranthene | ug/Kg | | ND | | ND | | | ND | | | | | 2.30E+03 | 2.20E+04 |
| Fluorene | ug/Kg | | ND | | ND | | | ND | | | | | 2.30E+03 | 2.20E+04 |
| Hexachlorobenzene | ug/Kg | | ND | | ND | | | ND | | | | | 3.00E-01 | 1.10E+00 |
| Hexachlorobutadiene | ug/Kg | | ND | | ND | | | ND | | | | | 6.20E+00 | 2.20E+01 |
| Hexachlorocyclopentadiene | ug/Kg | | ND | | ND | | | ND | | | | | 3.70E+02 | 3.70E+03 |
| Hexachloroethane | ug/Kg | | ND | | ND | | | ND | | | | | 1.20E+01 | 4.30E+01 |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | ND | | ND | | | ND | | | | | 1.50E-01 | 2.10E+00 |
| Isophorone | ug/Kg | | ND | | ND | | | ND | | | | | 5.10E+02 | 1.80E+03 |
| Naphthalene | ug/Kg | | ND | | ND | | | ND | | | | | 3.60E+00 | 1.80E+01 |
| Nitrobenzene | ug/Kg | | ND | | ND | | | ND | | | | | 4.80E+00 | 2.40E+01 |
| N-Nitroso-di-n propylamine | ug/Kg | | ND | | ND | | | ND | | | | | 6.90E-02 | 2.50E-01 |
| N-Nitrosodiphenylamine | ug/Kg | | ND | | ND | | | ND | | | | | 9.90E+01 | 3.50E+02 |
| Pentachlorophenol | ug/Kg | | ND | | ND | | | ND | | | | | 8.90E-01 | 2.70E+00 |
| Phenanthrene | ug/Kg | | ND | | ND | | | ND | | | | | | |
| Phenol | ug/Kg | | ND | | ND | | | ND | | | | | 1.80E+04 | 1.80E+05 |
| Pyrene | ug/Kg | | ND | | ND | | | ND | | | | | 1.70E+03 | 1.70E+04 |
| **RCRA Metals<br>(Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | |
| Arsenic | mg/Kg | | | | ***2.3*** | | | ***5.9*** | | | | | 3.90E-01 | 1.60E+00 |
| Barium | mg/Kg | | | | 27 | | | 29 | | | | | 1.50E+04 | 1.90E+05 |
| Cadmium | mg/Kg | | | | ND | | | ND | | | | | 7.00E+01 | 8.00E+02 |
| Chromium | mg/Kg | | | | ***8.5*** | | | ***15*** | | | | | 2.90E-01 | 5.60E+00 |
| Lead | mg/Kg | | | | 20 | | | 7.6 | | | | | 4.00E+02 | 8.00E+02 |
| Mercury | mg/Kg | | | | 0.047 | | | 0.011 J | | | | | 1.00E+01 | 4.30E+01 |
| Selenium | mg/Kg | | | | 0.33 J | | | ND | | | | | 3.90E+02 | 5.10E+03 |
| Silver | | | | | ND | | | ND | | | | | 3.90E+02 | 5.10E+03 |
| **PCBs<br>(Method 8082)** | | | | | | | | | | | | | | |
| Aroclor-1016 | ug/Kg | | | | ND | | | ND | | | | | 3.90E+00 | 2.10E+01 |
| Aroclor-1221 | ug/Kg | | | | ND | | | ND | | | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1232 | ug/Kg | | | | ND | | | ND | | | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1242 | ug/Kg | | | | ND | | | ND | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1248 | ug/Kg | | | | ND | | | ND | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1254 | ug/Kg | | | | ND | | | ND | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1260 | ug/Kg | | | | ND | | | ND | | | | | 2.20E-01 | 7.40E-01 |
| **Total PCBs** | ug/Kg | | | | ND | | | ND | | | | 50 [2] | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | | | | | |
| **TCLP RCRA Metals<br>(Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | |
| Arsenic | mg/L | | | | ND | | | | | | | 5 | | |
| Barium | mg/L | | | | 0.21 B | | | | | | | 100 | | |
| Cadmium | mg/L | | | | 0.00031 J | | | | | | | 1 | | |
| Chromium | mg/L | | | | 0.0020 JB | | | | | | | 5 | | |
| Lead | mg/L | | | | 0.017 J | | | | | | | 5 | | |
| Mercury | mg/L | | | | ND | | | | | | | 0.02 | | |
| Selenium | mg/L | | | | 0.0066 JB | | | | | | | 1 | | |
| Silver | mg/L | | | | 0.00083 JB | | | | | | | 5 | | |

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-20 | 3E-015-21W | 3E-015-22W | 3E-VDOT-23W | 3E-017-24W | 3E-VDOT-25W | 3E-VDOT-26W | 3E-VDOT-68W | 3E-015-80 | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 20 @ 2-4' | 21W @ 2-4' | 22W @ 2-4' | 23W @ 2-4' | 24W @ 2-4' | 25W @ 2-4' | 26W @ 2-4' | 68W @ 2-4' | 80 @ 6-12" | | | Residential | Industrial |
| Analytical Constituent | Units | Results | | | | | | | | | | | | |
| **TCLP VOCs (Methods 1311 & 8260B)** | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | mg/L | | ND | | ND | | | | | | | 0.7 | | |
| 1,2-Dichloroethane | mg/L | | ND | | ND | | | | | | | 0.5 | | |
| 1,4-Dichlorobenzene | mg/L | | ND | | ND | | | | | | | 7.5 | | |
| Benzene | mg/L | | ND | | ND | | | | | | | 0.5 | | |
| Carbon tetrachloride | mg/L | | ND | | ND | | | | | | | 0.5 | | |
| Chlorobenzene | mg/L | | ND | | ND | | | | | | | 100 | | |
| Chloroform | mg/L | | | | ND | | | | | | | 6 | | |
| Methyl ethyl ketone | mg/L | | ND | | ND | | | | | | | 200 | | |
| Tetrachloroethene | mg/L | | ND | | 0.037 J | | | | | | | 0.7 | | |
| Trichloroethene | mg/L | | ND | | ND | | | | | | | 0.5 | | |
| Vinyl chloride | mg/L | | ND | | ND | | | | | | | 0.2 | | |
| **TCLP SVOC (Methods 1311 & 8270C)** | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg/L | | ND | | ND | | | | | | | 400 | | |
| 2,4,6-Trichlorophenol | mg/L | | ND | | ND | | | | | | | 2 | | |
| 2,4-Dinitrotoluene | mg/L | | ND | | ND | | | | | | | 0.13 | | |
| Hexachloro-1,3-butadiene | mg/L | | | | ND | | | | | | | 0.5 | | |
| Hexachlorobenzene | mg/L | | ND | | ND | | | | | | | 0.13 | | |
| Hexachloroethane | mg/L | | ND | | ND | | | | | | | 3 | | |
| m-Cresol (3-Methylphenol) | mg/L | | ND | | ND | | | | | | | 200 | | |
| Nitrobenzene | mg/L | | ND | | ND | | | | | | | 2 | | |
| o-Cresol (2-Methylphenol) | mg/L | | ND | | ND | | | | | | | 200 | | |
| p-Cresol (4-Methylphenol) | mg/L | | ND | | ND | | | | | | | 200 | | |
| Pentachlorophenol | mg/L | | ND | | ND | | | | | | | 100 | | |
| Pyridine | mg/L | | | | ND | | | | | | | 5 | | |
| **General Chemistry** | | | | | | | | | | | | | | |
| Cyanide | mg/Kg | | | | ND | | | | | | | < 250 mg/kg | | |
| Sulfide | mg/Kg | | | | 490 | | | | | | | < 500mg/kg | | |
| pH | | | | | 7.08 H | | | | | | | <2 or >12.5 | | |
| Ignitability (Flashpoint) | F | | | | >140 | | | | | | | < 140F | | |

**NOTES:**

Analysis not performed on sample

** Bold values exceed Residential Risk Based Concentrations
Bold and Italic values exceed Industrial Risk Based Concentrations

ND - Not Detected Above the Laboratory's Method Detection Limit

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.

b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.

c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.

d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.

e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

[1] 40 CFR Part 261.4
[2] VSWMR 9 VAC 20-81-140.B.4.(d))

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.
B - Compound was found in the blank and sample.
H - Sample was prepped or analyzed beyond the specified holding time.

| CSX & Vulcan Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-32 | 3E-012-33W | 3E-012-35W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 28W @ 2-4' | 29W @ 2-4' | 31W @ 2-4' | 31WD @ 2-4' | 32 @ 4-6' | 33W @ 3-5' | 35W @ 7-9' | | | | |
| Analytical Constituent | Units | Results | | | | | | | | | Residential | Industrial |
| Oil and Grease | mg/Kg | 150 | 62 JB | 330 B | 1000 B | 940 B | 1600 B | 480 B | | | | |
| TPH-DRO | mg/Kg | 65 | 7 | 59 | 120 | 300 | 240 | 710 | a,b,c,d,e | | | |
| TPH-GRO | mg/Kg | 0.19 J | ND | 0.098 J | ND | 15 | 1.9 | 12 | a,b,c,d,e | | | |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | | ND | a,b,c,d,e | | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND | ND | ND | ND | ND | | ND | a,b,c,d,e | | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | 290 | | ND | a,b,c,d,e | | 5.40E+00 | 2.70E+01 |
| Xylenes | ug/Kg | ND | ND | ND | ND | 520 | | ND | a,b,c,d,e | | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND | ND | ND | ND | 810 | | ND | a,b,c,d,e | | | |
| EOX | mg/Kg | ND | | ND | ND | ND | | ND | a,b,c,d,e | | | |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | | ND | | | | ND | | | | 8.70E+03 | 3.80E+04 |
| 1,1,2,2-Tetrachloroethane | ug/Kg | | ND | | | | ND | | | | 5.60E-01 | 2.80E+00 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/Kg | | ND | | | | ND | | | | 4.30E+04 | 1.80E+05 |
| 1,1,2-Trichloroethane | ug/Kg | | ND | | | | ND | | | | 1.10E+00 | 5.30E+00 |
| 1,1-Dichloroethane | ug/Kg | | ND | | | | ND | | | | 3.30E+00 | 1.70E+01 |
| 1,1-Dichloroethene | ug/Kg | | ND | | | | ND | | | | 2.40E+02 | 1.10E+03 |
| 1,2,4-Trichlorobenzene | ug/Kg | | ND | | | | ND | | | | 2.20E+01 | 9.90E+01 |
| 1,2-Dibromo-3-chloropropane | ug/Kg | | ND | | | | ND | | | | 5.40E-03 | 6.90E-02 |
| 1,2-Dibromoethane | ug/Kg | | ND | | | | ND | | | | 3.40E-02 | 1.70E-01 |
| 1,2-Dichlorobenzene | ug/Kg | | ND | | | | ND | | | | 1.90E+03 | 9.80E+03 |
| 1,2-Dichloroethane | ug/Kg | | ND | | | | ND | | | | 4.30E-01 | 2.20E+00 |
| 1,2-Dichloropropane | ug/Kg | | ND | | | | ND | | | | 9.40E-01 | 4.70E+00 |
| 1,3-Dichlorobenzene | ug/Kg | | ND | | | | ND | | | | | |
| 1,4-Dichlorobenzene | ug/Kg | | ND | | | | ND | | | | 2.40E+00 | 1.20E+01 |
| 2-Butanone | ug/Kg | | ND | | | | ND | | | | 2.80E+04 | 2.00E+05 |
| 2-Hexanone | ug/Kg | | ND | | | | ND | | | | 2.10E+02 | 1.40E+03 |
| 4-Methyl-2-pentanone | ug/Kg | | ND | | | | ND | | | | 5.30E+03 | 5.30E+04 |
| Acetone | ug/Kg | | ND | | | | ND | | | | 6.10E+04 | 6.30E+05 |
| Benzene | ug/Kg | ND | 1.7 J | ND | ND | | ND | | | | 1.10E+00 | 5.40E+00 |
| Bromodichloromethane | ug/Kg | | ND | | | | ND | | | | 2.70E-01 | 1.40E+00 |
| Bromoform | ug/Kg | | ND | | | | ND | | | | 6.20E+01 | 2.20E+02 |
| Bromomethane | ug/Kg | | ND | | | | ND | | | | 7.30E+00 | 3.20E+01 |
| Carbon disulfide | ug/Kg | | ND | | | | ND | | | | 8.20E+02 | 3.70E+03 |
| Carbon tetrachloride | ug/Kg | | ND * | | | | ND * | | | | 6.10E-01 | 3.00E+00 |
| Chlorobenzene | ug/Kg | | ND | | | | ND | | | | 2.90E+02 | 1.40E+03 |
| Chloroethane | ug/Kg | | ND | | | | ND | | | | | |
| Chloroform | ug/Kg | | ND | | | | ND | | | | 2.90E-01 | 1.50E+00 |
| Chloromethane | ug/Kg | | ND | | | | ND | | | | 1.20E+02 | 5.00E+02 |
| cis-1,2-Dichloroethene | ug/Kg | | ND | | | | ND | | | | 1.60E+02 | 2.00E+03 |
| cis-1,3-Dichloropropene | ug/Kg | | ND | | | | ND | | | | 1.70E+00 | 8.30E+00 |
| Cyclohexane | ug/Kg | | ND | | | | ND | | | | 7.00E+03 | 2.90E+04 |
| Dibromochloromethane | ug/Kg | | ND | | | | ND | | | | 6.80E-01 | 3.30E+00 |
| Dichlorodifluoromethane | ug/Kg | | ND | | | | ND | | | | 9.40E+01 | 4.00E+02 |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | | ND | | | | 5.40E+00 | 2.70E+01 |
| Isopropylbenzene | ug/Kg | | ND | | | | ND | | | | 2.10E+03 | 1.10E+04 |
| Xylenes (Total) | ug/Kg | ND | ND | ND | ND | | ND | | | | 5.90E+02 | 2.50E+03 |

| CSX & Vulcan Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-32 | 3E-012-33W | 3E-012-35W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 28W @ 2-4' | 29W @ 2-4' | 31W @ 2-4' | 31WD @ 2-4' | 32 @ 4-6' | 33W @ 3-5' | 35W @ 7-9' | | | | |
| Analytical Constituent | Units | Results | | | | | | | | | Residential | Industrial |
| Volatile Organic Constituents (Continued) (Method 8260) | | | | | | | | | | | | |
| Methyl acetate | ug/Kg | | ND | | | | ND | | | | 7.80E+04 | 1.00E+06 |
| Methyl tert-butyl ether | ug/Kg | | ND | | | | ND | | | | 4.30E+01 | 2.20E+02 |
| Methylcyclohexane | ug/Kg | | ND | | | | ND | | | | | |
| Methylene chloride | ug/Kg | | ND | | | | ND | | | | 5.60E+01 | 9.60E+02 |
| Styrene | ug/Kg | | ND | | | | ND | | | | 6.30E+03 | 3.60E+04 |
| Tetrachloroethene | ug/Kg | | ND | | | | ND | | | | 2.20E+01 | 1.10E+02 |
| Toluene | ug/Kg | ND | ND | ND | ND | | ND | | | | 5.00E+03 | 4.50E+04 |
| trans-1,2-Dichloroethene | ug/Kg | | ND | | | | ND | | | | 1.50E+02 | 6.90E+02 |
| trans-1,3-Dichloropropene | ug/Kg | | ND | | | | ND | | | | | |
| Trichloroethene | ug/Kg | | ND | | | | ND | | | | 9.10E-01 | 6.40E+00 |
| Trichlorofluoromethane | ug/Kg | | ND | | | | ND | | | | 7.90E+02 | 3.40E+03 |
| Vinyl chloride | ug/Kg | | ND | | | | ND | | | | 6.00E-02 | 1.70E+00 |
| Semi-Volatile Constituents (Method 8270C) | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/Kg | | ND | | | | ND | | | | 5.10E+01 | 2.10E+02 |
| 2,4,5-Trichlorophenol | ug/Kg | | ND | | | | ND | | | | 6.10E+03 | 6.20E+04 |
| 2,4,6-Trichlorophenol | ug/Kg | | ND | | | | ND | | | | 4.40E+01 | 1.60E+02 |
| 2,4-Dichlorophenol | ug/Kg | | ND | | | | ND | | | | 1.80E+02 | 1.80E+03 |
| 2,4-Dimethylphenol | ug/Kg | | ND | | | | ND | | | | 1.20E+03 | 1.20E+04 |
| 2,4-Dinitrophenol | ug/Kg | | ND | | | | ND | | | | 1.20E+02 | 1.20E+03 |
| 2,4-Dinitrotoluene | ug/Kg | | ND | | | | ND | | | | 1.60E+00 | 5.50E+00 |
| 2,6-Dinitrotoluene | ug/Kg | | ND | | | | ND | | | | 6.10E+01 | 6.20E+02 |
| 2-Chloronaphthalene | ug/Kg | | ND | | | | ND | | | | 6.30E+03 | 8.20E+04 |
| 2-Chlorophenol | ug/Kg | | ND | | | | ND | | | | 3.90E+02 | 5.10E+03 |
| 2-Methylnaphthalene | ug/Kg | | 81 J | | | | 130 J | | | | 2.30E+02 | 2.20E+03 |
| 2-Methylphenol | ug/Kg | | ND | | | | ND | | | | | |
| 2-Nitroaniline | ug/Kg | | ND | | | | ND | | | | 6.10E+02 | 6.00E+03 |
| 2-Nitrophenol | ug/Kg | | ND | | | | ND | | | | | |
| 3,3'-dicholorobenzidine | ug/Kg | | ND | | | | ND | | | | 1.10E+00 | 3.80E+00 |
| 3-Nitroaniline | ug/Kg | | ND | | | | ND | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/Kg | | ND | | | | ND | | | | | |
| 4-Bromophenyl-phenylether | ug/Kg | | ND | | | | ND | | | | | |
| 4-Chloro-3-methylphenol | ug/Kg | | ND | | | | ND | | | | | |
| 4-Chloroaniline | ug/Kg | | ND | | | | ND | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/Kg | | ND | | | | ND | | | | | |
| 4 and 3-Methylphenol | ug/Kg | | ND | | | | ND | | | | | |
| 4-Nitroaniline | ug/Kg | | ND | | | | ND | | | | 2.40E+01 | 8.60E+01 |
| 4-Nitrophenol | ug/Kg | | ND | | | | ND | | | | | |
| Acenaphthene | ug/Kg | | 9.6 J | | | | 280 | | | | 3.40E+03 | 3.30E+04 |
| Acenaphthylene | ug/Kg | | ND | | | | ND | | | | | |
| Acetophenone | ug/Kg | | 42J | | | | ND | | | | 7.80E+03 | 1.00E+05 |
| Anthracene | ug/Kg | | 16J | | | | ND | | | | 1.70E+04 | 1.70E+05 |
| Atrazine | ug/Kg | | ND | | | | ND | | | | 2.10E+00 | 7.50E+00 |

| CSX & Vulcan Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-32 | 3E-012-33W | 3E-012-35W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 28W @ 2-4' | 29W @ 2-4' | 31W @ 2-4' | 31WD @ 2-4' | 32 @ 4-6' | 33W @ 3-5' | 35W @ 7-9' | | | | |
| Analytical Constituent | Units | Results | | | | | | | | | Residential | Industrial |
| Semi-Volatile Constituents (continued) (Method 8270C) | | | | | | | | | | | | |
| Benzaldehyde | ug/Kg | | ND | | | | ND | | | | 7.80E+03 | 1.00E+05 |
| Benzo(a) pyrene | ug/Kg | | 44 J | | | | ND | | | | 1.50E-02 | 2.10E-01 |
| Benzo(a)anthracene | ug/Kg | | 76 J | | | | ND | | | | 1.50E-01 | 2.10E+00 |
| Benzo(b) fluoranthene | ug/Kg | | 84 | | | | ND | | | | 1.50E-01 | 2.10E+00 |
| Benzo(g,h,i) perylene | ug/Kg | | 56 J | | | | ND | | | | | |
| Benzo(k) fluoranthene | ug/Kg | | ND | | | | ND | | | | 1.50E+00 | 2.10E+01 |
| Bis(2-chloroethoxy) methane | ug/Kg | | ND | | | | ND | | | | 1.80E+02 | 1.80E+03 |
| Bis(2-chloroethyl) ether | ug/Kg | | ND | | | | ND | | | | 2.10E-01 | 1.00E+00 |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | 78 J | | | | ND | | | | 3.50E+01 | 1.20E+02 |
| Butylbenzylphthalate | ug/Kg | | ND | | | | ND | | | | 2.60E+02 | 9.10E+02 |
| Caprolactam | ug/Kg | | ND | | | | ND | | | | 3.10E+04 | 3.10E+05 |
| Carbazole | ug/Kg | | 8.1 J | | | | ND | | | | | |
| Chrysene | ug/Kg | | 110 | | | | ND | | | | 1.50E+01 | 2.10E+02 |
| Dibenzo(a,h) anthracene | ug/Kg | | 27 J | | | | ND | | | | 1.50E-02 | 2.10E-01 |
| Dibenzofuran | ug/Kg | | ND | | | | ND | | | | 7.80E+01 | 1.00E+03 |
| Diethylphthalate | ug/Kg | | ND | | | | ND | | | | 4.90E+04 | 4.90E+05 |
| Dimethylphthalate | ug/Kg | | ND | | | | ND | | | | | |
| Di-n-butylphthalate | ug/Kg | | ND | | | | ND | | | | | |
| Di-n-octylphthalate | ug/Kg | | ND | | | | ND | | | | | |
| Fluoranthene | ug/Kg | | 80 J | | | | ND | | | | 2.30E+03 | 2.20E+04 |
| Fluorene | ug/Kg | | 12 J | | | | 380 | | | | 2.30E+03 | 2.20E+04 |
| Hexachlorobenzene | ug/Kg | | ND | | | | ND | | | | 3.00E-01 | 1.10E+00 |
| Hexachlorobutadiene | ug/Kg | | ND | | | | ND | | | | 6.20E+00 | 2.20E+01 |
| Hexachlorocyclopentadiene | ug/Kg | | ND | | | | ND | | | | 3.70E+02 | 3.70E+03 |
| Hexachloroethane | ug/Kg | | ND | | | | ND | | | | 1.20E+01 | 4.30E+01 |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | 35 J | | | | ND | | | | 1.50E-01 | 2.10E+00 |
| Isophorone | ug/Kg | | ND | | | | ND | | | | 5.10E+02 | 1.80E+03 |
| Naphthalene | ug/Kg | | 130 J | | | | ND | | | | 3.60E+00 | 1.80E+01 |
| Nitrobenzene | ug/Kg | | ND | | | | ND | | | | 4.80E+00 | 2.40E+01 |
| N-Nitroso-di-n propylamine | ug/Kg | | ND | | | | ND | | | | 6.90E-02 | 2.50E-01 |
| N-Nitrosodiphenylamine | ug/Kg | | ND | | | | ND | | | | 9.90E+01 | 3.50E+02 |
| Pentachlorophenol | ug/Kg | | ND | | | | ND | | | | 8.90E-01 | 2.70E+00 |
| Phenanthrene | ug/Kg | | 130 | | | | 440 | | | | | |
| Phenol | ug/Kg | | ND | | | | ND | | | | 1.80E+04 | 1.80E+05 |
| Pyrene | ug/Kg | | 86 | | | | 85 J | | | | 1.70E+03 | 1.70E+04 |
| RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury) | | | | | | | | | | | | |
| Arsenic | mg/Kg | | ***6.4*** | | | | ***3.5*** | | | | 3.90E-01 | 1.60E+00 |
| Barium | mg/Kg | | 120 | | | | 36 | | | | 1.50E+04 | 1.90E+05 |
| Cadmium | mg/Kg | | ND | | | | ND | | | | 7.00E+01 | 8.00E+02 |
| Chromium | mg/Kg | | ***12*** | | | | ***12*** | | | | 2.90E-01 | 5.60E+00 |
| Lead | mg/Kg | | 170 | | | | 50 | | | | 4.00E+02 | 8.00E+02 |
| Mercury | mg/Kg | | 0.22 | | | | 0.037 J | | | | 1.00E+01 | 4.30E+01 |
| Selenium | mg/Kg | | 1.3B | | | | 0.6 B | | | | 3.90E+02 | 5.10E+03 |
| Silver | mg/Kg | | ND | | | | ND | | | | 3.90E+02 | 5.10E+03 |

| CSX & Vulcan Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-32 | 3E-012-33W | 3E-012-35W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 28W @ 2-4' | 29W @ 2-4' | 31W @ 2-4' | 31WD @ 2-4' | 32 @ 4-6' | 33W @ 3-5' | 35W @ 7-9' | | | Residential | Industrial |
| Analytical Constituent | Units | Results | | | | | | | | | | |
| **PCBs (Method 8082)** | | | | | | | | | | | | |
| Aroclor-1016 | ug/Kg | | ND | | | | ND | | | | 3.90E+00 | 2.10E+01 |
| Aroclor-1221 | ug/Kg | | ND | | | | ND | | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1232 | ug/Kg | | ND | | | | ND | | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1242 | ug/Kg | | ND | | | | ND | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1248 | ug/Kg | | ND | | | | ND | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1254 | ug/Kg | | ND | | | | ND | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1260 | ug/Kg | | ND | | | | ND | | | | 2.20E-01 | 7.40E-01 |
| **Total PCBs** | ug/Kg | | ND | | | | ND | | | 50 [2] | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | |
| Arsenic | mg/L | | 0.0049 J | | | | ND | | | 5 | | |
| Barium | mg/L | | 0.61 B | | | | 1 B | | | 100 | | |
| Cadmium | mg/L | | 0.00042 J | | | | 0.0039 JB | | | 1 | | |
| Chromium | mg/L | | 0.0018 J | | | | 0.0054 J | | | 5 | | |
| Lead | mg/L | | 0.15 | | | | 1.3 | | | 5 | | |
| Mercury | mg/L | | ND H | | | | ND | | | 0.02 | | |
| Selenium | mg/L | | 0.012 JB | | | | 0.012 JB | | | 1 | | |
| Silver | mg/L | | ND | | | | ND | | | 5 | | |
| **TCLP VOCs (Methods 1311 & 8260B)** | | | | | | | | | | | | |
| 1,1-Dichloroethene | mg/L | | | | | | ND | | | 0.7 | | |
| 1,2-Dichloroethane | mg/L | | | | | | ND | | | 0.5 | | |
| 1,4-Dichlorobenzene | mg/L | | | | | | ND | | | 7.5 | | |
| Benzene | mg/L | | | | | | ND | | | 0.5 | | |
| Carbon tetrachloride | mg/L | | | | | | ND | | | 0.5 | | |
| Chlorobenzene | mg/L | | | | | | ND | | | 100 | | |
| Chloroform | mg/L | | | | | | ND | | | 6 | | |
| Methyl ethyl ketone | mg/L | | | | | | ND | | | 200 | | |
| Tetrachloroethene | mg/L | | | | | | ND | | | 0.7 | | |
| Trichloroethene | mg/L | | | | | | ND | | | 0.5 | | |
| Vinyl chloride | mg/L | | | | | | ND | | | 0.2 | | |
| **TCLP SVOC (Methods 1311 & 8270C)** | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg/L | | | | | | ND | | | 400 | | |
| 2,4,6-Trichlorophenol | mg/L | | | | | | ND | | | 2 | | |
| 2,4-Dinitrotoluene | mg/L | | | | | | ND | | | 0.13 | | |
| Hexachloro-1,3-butadiene | mg/L | | | | | | ND | | | 0.5 | | |
| Hexachlorobenzene | mg/L | | | | | | ND | | | 0.13 | | |
| Hexachloroethane | mg/L | | | | | | ND | | | 3 | | |
| m-Cresol (3-Methylphenol) | mg/L | | | | | | ND | | | 200 | | |
| Nitrobenzene | mg/L | | | | | | ND | | | 2 | | |
| o-Cresol (2-Methylphenol) | mg/L | | | | | | ND | | | 200 | | |
| p-Cresol (4-Methylphenol) | mg/L | | | | | | ND | | | 200 | | |

| CSX & Vulcan Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-32 | 3E-012-33W | 3E-012-35W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 28W @ 2-4' | 29W @ 2-4' | 31W @ 2-4' | 31WD @ 2-4' | 32 @ 4-6' | 33W @ 3-5' | 35W @ 7-9' | | | Residential | Industrial |
| Analytical Constituent | Units | Results | | | | | | | | | | |
| Pentachlorophenol | mg/L | | | | | | ND | | | 100 | | |
| Pyridine | mg/L | | | | | | ND * | | | 5 | | |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

** Bold values exceed Residential Risk Based Concentrations

Bold and Italic values exceed Industrial Risk Based Concentrations

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.

b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.

c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.

d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.

e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

[1] 40 CFR Part 261.4

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Dominion Demolition & Pond 24<br>Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Point | | | | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-024-37** | **3E-024-38W** | **3E-025-39** | **3E-025-40W** | **3E-025-41W** | **3E-025-41W** | **3E-029-42W** | **3E-025-43W** | **3E-025-43W** | **3E-025-44W** | **3E-025-45W** | **3E-025-46W** | **3E-025-81** | **VDEQ Clean Fill Criteria** | **Other Regulatory Criteria (mg/L)** | **Risk Based Concentrations Soil (mg/kg)** | |
| **Sample ID:** | | **37 @ 1-3'** | **38W @ 4-6'** | **39 @ 2-4'** | **40W @ 2-4'** | **41W @ 0-1'** | **41W @ 5-7'** | **42W @ 2-4'** | **43W @ 2-4'** | **43WD @ 2-4'** | **44W @ 2-4'** | **45W @ 1-3'** | **46W @ 2-4'** | **81 @ 2-4'** | | | **Residential** | **Industrial** |
| **Analytical Constituent** | **Units** | **Results**** | | | | | | | | | | | | | | | | |
| Oil and Grease | mg/Kg | 490 B | 560 | 72 J | 51 J | 12000 | 130 J | 66 J B | 81 J | 82 J | 140 J | 130 J | 87 J | 100 J B | | | | |
| TPH-DRO | mg/Kg | **280** | **52** | 2.5 J | ND | **2900** | 4 J | 5.8 | 2.5 J | 3.1 J | 10 | 10 | **55** | 8.3 | a,b,c,d,e | | | |
| TPH-GRO | mg/Kg | ND | ND | ND | ND | 0.91 | 0.35 | ND | ND | ND | ND | ND | ND | .3 J | a,b,c,d,e | | | |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND | ND | ND | ND | 6.9 | ND | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | 11 | ND | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 5.40E+00 | 2.70E+01 |
| Xylenes | ug/Kg | ND | ND | ND | ND | 93 | ND | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND | ND | ND | ND | 110.9 | ND | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| EOX | mg/Kg | 9.6 J | | ND | | ND | | ND | ND | ND | | ND | ND | ND | a,b,c,d,e | | | |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 8.70E+03 | 3.80E+04 |
| 1,1,2,2-Tetrachloroethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 5.60E-01 | 2.80E+00 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 4.30E+04 | 1.80E+05 |
| 1,1,2-Trichloroethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.10E+00 | 5.30E+00 |
| 1,1-Dichloroethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.30E+00 | 1.70E+01 |
| 1,1-Dichloroethene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.40E+02 | 1.10E+03 |
| 1,2,4-Trichlorobenzene | ug/Kg | | ND | | 1.3 J | | ND | | | | ND | | | | | | 2.20E+01 | 9.90E+01 |
| 1,2-Dibromo-3-chloropropane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 5.40E-03 | 6.90E-02 |
| 1,2-Dibromoethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.40E-02 | 1.70E-01 |
| 1,2-Dichlorobenzene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.90E+03 | 9.80E+03 |
| 1,2-Dichloroethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 4.30E-01 | 2.20E+00 |
| 1,2-Dichloropropane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 9.40E-01 | 4.70E+00 |
| 1,3-Dichlorobenzene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 1,4-Dichlorobenzene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.40E+00 | 1.20E+01 |
| 2-Butanone | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.80E+04 | 2.00E+05 |
| 2-Hexanone | ug/Kg | | ND | | ND * | | ND | | | | ND | | | | | | 2.10E+02 | 1.40E+03 |
| 4-Methyl-2-pentanone | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 5.30E+03 | 5.30E+04 |
| Acetone | ug/Kg | | ND | | ND | | ND | | | | 7.4 | | | | | | 6.10E+04 | 6.30E+05 |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | 1.10E+00 | 5.40E+00 |
| Bromodichloromethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.70E-01 | 1.40E+00 |
| Bromoform | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.20E+01 | 2.20E+02 |
| Bromomethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 7.30E+00 | 3.20E+01 |
| Carbon disulfide | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 8.20E+02 | 3.70E+03 |
| Carbon tetrachloride | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.10E-01 | 3.00E+00 |
| Chlorobenzene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.90E+02 | 1.40E+03 |
| Chloroethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Chloroform | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.90E-01 | 1.50E+00 |
| Chloromethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.20E+02 | 5.00E+02 |
| cis-1,2-Dichloroethene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.60E+02 | 2.00E+03 |
| cis-1,3-Dichloropropene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.70E+00 | 8.30E+00 |
| Cyclohexane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 7.00E+03 | 2.90E+04 |
| Dibromochloromethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.80E-01 | 3.30E+00 |
| Dichlorodifluoromethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 9.40E+01 | 4.00E+02 |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | 11 | ND | ND | ND | ND | ND | ND | ND | ND | | | 5.40E+00 | 2.70E+01 |
| Isopropylbenzene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.10E+03 | 1.10E+04 |
| Xylenes (Total) | ug/Kg | ND | ND | ND | ND | 93 | ND | ND | ND | ND | ND | ND | ND | ND | | | 5.90E+02 | 2.50E+03 |
| Methyl acetate | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 7.80E+04 | 1.00E+06 |
| Methyl tert-butyl ether | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 4.30E+01 | 2.20E+02 |
| Methylcyclohexane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Methylene chloride | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 5.60E+01 | 9.60E+02 |
| Styrene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.30E+03 | 3.60E+04 |
| Tetrachloroethene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.20E+01 | 1.10E+02 |
| Toluene | ug/Kg | ND | ND | ND | ND | 7 | ND | ND | ND | ND | ND | ND | ND | ND | | | 5.00E+03 | 4.50E+04 |
| trans-1,2-Dichloroethene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.50E+02 | 6.90E+02 |
| trans-1,3-Dichloropropene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Trichloroethene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 9.10E-01 | 6.40E+00 |
| Trichlorofluoromethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 7.90E+02 | 3.40E+03 |
| Vinyl chloride | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.00E-02 | 1.70E+00 |

| Dominion Demolition & Pond 24<br>Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Point | | | | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-024-37 | 3E-024-38W | 3E-025-39 | 3E-025-40W | 3E-025-41W | 3E-025-41W | 3E-029-42W | 3E-025-43W | 3E-025-43W | 3E-025-44W | 3E-025-45W | 3E-025-46W | 3E-025-81 | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 37 @ 1-3' | 38W @ 4-6' | 39 @ 2-4' | 40W @ 2-4' | 41W @ 0-1' | 41W @ 5-7' | 42W @ 2-4' | 43W @ 2-4' | 43WD @ 2-4' | 44W @ 2-4' | 45W @ 1-3' | 46W @ 2-4' | 81 @ 2-4' | | | | |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | | | | Residential | Industrial |
| Semi-Volatile Constituents (Method 8270C) | | | | | | | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 5.10E+01 | 2.10E+02 |
| 2,4,5-Trichlorophenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.10E+03 | 6.20E+04 |
| 2,4,6-Trichlorophenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 4.40E+01 | 1.60E+02 |
| 2,4-Dichlorophenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.80E+02 | 1.80E+03 |
| 2,4-Dimethylphenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.20E+03 | 1.20E+04 |
| 2,4-Dinitrophenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.20E+02 | 1.20E+03 |
| 2,4-Dinitrotoluene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.60E+00 | 5.50E+00 |
| 2,6-Dinitrotoluene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.10E+01 | 6.20E+02 |
| 2-Chloronaphthalene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.30E+03 | 8.20E+04 |
| 2-Chlorophenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.90E+02 | 5.10E+03 |
| 2-Methylnaphthalene | ug/Kg | | 11 J | | 7.2 J | | 12 J | | | | ND | | | | | | 2.30E+02 | 2.20E+03 |
| 2-Methylphenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 2-Nitroaniline | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.10E+02 | 6.00E+03 |
| 2-Nitrophenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 3,3'-dicholorobenzidine | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.10E+00 | 3.80E+00 |
| 3-Nitroaniline | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 4-Bromophenyl-phenylether | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 4-Chloro-3-methylphenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 4-Chloroaniline | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 4 and 3-Methylphenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| 4-Nitroaniline | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.40E+01 | 8.60E+01 |
| 4-Nitrophenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Acenaphthene | ug/Kg | | 22 J | | ND | | ND | | | | ND | | | | | | 3.40E+03 | 3.30E+04 |
| Acenaphthylene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Acetophenone | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 7.80E+03 | 1.00E+05 |
| Anthracene | ug/Kg | | 33 J | | 7.8 J | | ND | | | | ND | | | | | | 1.70E+04 | 1.70E+05 |
| Atrazine | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.10E+00 | 7.50E+00 |
| Benzaldehyde | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 7.80E+03 | 1.00E+05 |
| Benzo(a) pyrene | ug/Kg | | 47 J | | 57 J | | ND | | | | 49 J | | | | | | 1.50E-02 | 2.10E-01 |
| Benzo(a)anthracene | ug/Kg | | 47 J | | 51 J | | ND | | | | 47 J | | | | | | 1.50E-01 | 2.10E+00 |
| Benzo(b) fluoranthene | ug/Kg | | 38 J | | 86 | | ND | | | | 66 J | | | | | | 1.50E-01 | 2.10E+00 |
| Benzo(g,h,i) perylene | ug/Kg | | 45 J | | 54 J | | ND | | | | 42 J | | | | | | | |
| Benzo(k) fluoranthene | ug/Kg | | 24 J | | ND | | ND | | | | ND | | | | | | 1.50E+00 | 2.10E+01 |
| Bis(2-chloroethoxy) methane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.80E+02 | 1.80E+03 |
| Bis(2-chloroethyl) ether | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.10E-01 | 1.00E+00 |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | 140 J | | 63 J | | ND | | | | ND | | | | | | 3.50E+01 | 1.20E+02 |
| Butylbenzylphthalate | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.60E+02 | 9.10E+02 |
| Caprolactam | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.10E+04 | 3.10E+05 |
| Carbazole | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Chrysene | ug/Kg | | 51 J | | 64 J | | ND | | | | 49 J | | | | | | 1.50E+01 | 2.10E+02 |
| Dibenzo(a,h) anthracene | ug/Kg | | 11 J | | 16 J | | ND | | | | ND | | | | | | 1.50E-02 | 2.10E-01 |
| Dibenzofuran | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 7.80E+01 | 1.00E+03 |
| Diethylphthalate | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 4.90E+04 | 4.90E+05 |
| Dimethylphthalate | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Di-n-butylphthalate | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Di-n-octylphthalate | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | | |
| Fluoranthene | ug/Kg | | 70 J | | 76 J | | ND | | | | 63 J | | | | | | 2.30E+03 | 2.20E+04 |
| Fluorene | ug/Kg | | 22 J | | ND | | ND | | | | ND | | | | | | 2.30E+03 | 2.20E+04 |
| Hexachlorobenzene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.00E-01 | 1.10E+00 |
| Hexachlorobutadiene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.20E+00 | 2.20E+01 |
| Hexachlorocyclopentadiene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.70E+02 | 3.70E+03 |
| Hexachloroethane | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.20E+01 | 4.30E+01 |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | 33 J | | 45 J | | ND | | | | 45 J | | | | | | 1.50E-01 | 2.10E+00 |
| Isophorone | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 5.10E+02 | 1.80E+03 |
| Naphthalene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.60E+00 | 1.80E+01 |
| Nitrobenzene | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 4.80E+00 | 2.40E+01 |
| N-Nitroso-di-n propylamine | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 6.90E-02 | 2.50E-01 |
| N-Nitrosodiphenylamine | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 9.90E+01 | 3.50E+02 |
| Pentachlorophenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 8.90E-01 | 2.70E+00 |
| Phenanthrene | ug/Kg | | 88 | | 42 J | | ND | | | | 15 J | | | | | | | |
| Phenol | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.80E+04 | 1.80E+05 |
| Pyrene | ug/Kg | | 96 | | 71 J | | ND | | | | 60 J | | | | | | 1.70E+03 | 1.70E+04 |

| Dominion Demolition & Pond 24<br>Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Point | | | | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Boring ID:** | | **3E-024-37** | **3E-024-38W** | **3E-025-39** | **3E-025-40W** | **3E-025-41W** | **3E-025-41W** | **3E-029-42W** | **3E-025-43W** | **3E-025-43W** | **3E-025-44W** | **3E-025-45W** | **3E-025-46W** | **3E-025-81** | **VDEQ Clean Fill Criteria** | **Other Regulatory Criteria (mg/L)** | **Risk Based Concentrations Soil (mg/kg)** | |
| **Sample ID:** | | **37 @ 1-3'** | **38W @ 4-6'** | **39 @ 2-4'** | **40W @ 2-4'** | **41W @ 0-1'** | **41W @ 5-7'** | **42W @ 2-4'** | **43W @ 2-4'** | **43WD @ 2-4'** | **44W @ 2-4'** | **45W @ 1-3'** | **46W @ 2-4'** | **81 @ 2-4'** | | | | |
| **Analytical Constituent** | **Units** | **Results**** | | | | | | | | | | | | | | | **Residential** | **Industrial** |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/Kg | | ***2.4*** | | ***2.2*** | | **1.3** | | | | ***5*** | | | | | | 3.90E-01 | 1.60E+00 |
| Barium | mg/Kg | | 17 J B | | 58 B | | 22 J B | | | | 47 B | | | | | | 1.50E+04 | 1.90E+05 |
| Cadmium | mg/Kg | | 0.049 J | | 0.073 J | | 0.036 J | | | | 0.88 | | | | | | 7.00E+01 | 8.00E+02 |
| Chromium | mg/Kg | | ***8.1*** | | ***17*** | | ***12*** | | | | ***10*** | | | | | | 2.90E-01 | 5.60E+00 |
| Lead | mg/Kg | | 5.9 | | 9.6 | | 15 | | | | 67 | | | | | | 4.00E+02 | 8.00E+02 |
| Mercury | mg/Kg | | ND | | 0.14 | | ND | | | | 0.082 | | | | | | 1.00E+01 | 4.30E+01 |
| Selenium | mg/Kg | | ND | | 0.63 B | | 0.3 J B | | | | 0.64 B | | | | | | 3.90E+02 | 5.10E+03 |
| Silver | mg/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.90E+02 | 5.10E+03 |
| **PCBs (Method 8082)** | | | | | | | | | | | | | | | | | | |
| Aroclor-1016 | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 3.90E+00 | 2.10E+01 |
| Aroclor-1221 | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1232 | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1242 | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1248 | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1254 | ug/Kg | | ND | | ND | | ND | | | | ND | | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1260 | ug/Kg | | 15 J | | 5.4 J | | ND | | | | ND | | | | | | 2.20E-01 | 7.40E-01 |
| **Total PCBs** | ug/Kg | | 15 | | 5.4 | | ND | | | | ND | | | | | 50 [2] | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | | | | | |
| Arsenic | mg/L | | ND | | 0.013 J | | 0.0072 J | | | | 0.0059 J | | | | | 5 | | |
| Barium | mg/L | | 0.16 J | | 0.33 B | | 0.11 J B | | | | 0.27 B | | | | | 100 | | |
| Cadmium | mg/L | | 0.00062 J B | | 0.00018 J | | 0.00020 J | | | | 0.00041 J | | | | | 1 | | |
| Chromium | mg/L | | 0.0046 J | | 0.0044 J | | 0.0025 J | | | | 0.0017 J | | | | | 5 | | |
| Lead | mg/L | | 0.034 J | | 0.036 J | | 0.0065 J | | | | 0.016 J | | | | | 5 | | |
| Mercury | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.02 | | |
| Selenium | mg/L | | 0.0066 J B | | 0.0068 J B | | 0.0052 J B | | | | 0.0057 J B | | | | | 1 | | |
| Silver | mg/L | | ND | | ND | | ND | | | | ND | | | | | 5 | | |
| **TCLP VOCs (Methods 1311 & 8260B)** | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.7 | | |
| 1,2-Dichloroethane | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.5 | | |
| 1,4-Dichlorobenzene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 7.5 | | |
| Benzene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.5 | | |
| Carbon tetrachloride | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.5 | | |
| Chlorobenzene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 100 | | |
| Chloroform | mg/L | | ND | | ND | | ND | | | | ND | | | | | 6 | | |
| Methyl ethyl ketone | mg/L | | ND | | ND | | ND | | | | ND | | | | | 200 | | |
| Tetrachloroethene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.7 | | |
| Trichloroethene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.5 | | |
| Vinyl chloride | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.2 | | |
| **TCLP SVOC (Methods 1311 & 8270C)** | | | | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg/L | | ND | | ND | | ND | | | | ND | | | | | 400 | | |
| 2,4,6-Trichlorophenol | mg/L | | ND | | ND | | ND | | | | ND | | | | | 2 | | |
| 2,4-Dinitrotoluene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.13 | | |
| Hexachloro-1,3-butadiene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.5 | | |
| Hexachlorobenzene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 0.13 | | |
| Hexachloroethane | mg/L | | ND | | ND | | ND | | | | ND | | | | | 3 | | |
| m-Cresol (3-Methylphenol) | mg/L | | ND | | ND | | ND | | | | ND | | | | | 200 | | |
| Nitrobenzene | mg/L | | ND | | ND | | ND | | | | ND | | | | | 2 | | |
| o-Cresol (2-Methylphenol) | mg/L | | ND | | ND | | ND | | | | ND | | | | | 200 | | |
| p-Cresol (4-Methylphenol) | mg/L | | ND | | ND | | ND | | | | ND | | | | | 200 | | |
| Pentachlorophenol | mg/L | | ND | | ND | | ND | | | | ND | | | | | 100 | | |
| Pyridine | mg/L | | ND | | ND | | ND | | | | ND | | | | | 5 | | |
| **General Chemistry** | | | | | | | | | | | | | | | | | | |
| Cyanide | mg/Kg | | ND | | ND | | ND | | | | ND | | | | | < 250 mg/kg | | |
| Sulfide | mg/Kg | | 7.6 J | | ND | | ND | | | | ND | | | | | < 500mg/kg | | |
| pH | | | 6.24 | | 5.78 | | 6.12 | | | | 5.67 | | | | | <2 or >12.5 | | |
| Ignitability (Flashpoint) | F | | >140 F | | >140 | | >140 | | | | >140 | | | | | < 140F | | |

| Dominion Demolition & Pond 24<br>Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Point | | | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-024-37 | 3E-024-38W | 3E-025-39 | 3E-025-40W | 3E-025-41W | 3E-025-41W | 3E-029-42W | 3E-025-43W | 3E-025-43W | 3E-025-44W | 3E-025-45W | 3E-025-46W | 3E-025-81 | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 37 @ 1-3' | 38W @ 4-6' | 39 @ 2-4' | 40W @ 2-4' | 41W @ 0-1' | 41W @ 5-7' | 42W @ 2-4' | 43W @ 2-4' | 43WD @ 2-4' | 44W @ 2-4' | 45W @ 1-3' | 46W @ 2-4' | 81 @ 2-4' | | | Residential | Industrial |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | | | | | |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

** Bold values exceed Residential Risk Based Concentrations

Bold and Italic values exceed Industrial Risk Based Concentrations

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.

b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.

c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.

d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.

e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

[1] 40 CFR Part 261.4

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Pond 25<br>Parcels: 031, 032, 034, 051, 052, 053, 054, 055, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-031-47W | 3E-032-48W | 3E-034-49W | 3E-034-49W | 3E-034-50W | 3E-VDOT-51W | 3E-031-52W | 3E-033-53W | 3E-VDOT-54W | 3E-VDOT-55W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 47W @ 2-4' | 48W @ 3-5' | 49W @ 8-10' | 49WD @ 8-10' | 50W @ 9-11' | 51W @ 8-10' | 52W @ 2-4' | 53W @ 4-6' | 54W @ 2-4' | 55W @ 3-5' | | | Residential | Industrial |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | | |
| Oil and Grease | mg/Kg | 54 J B | 37 J B | 300 B | 250 B | 51 J B | 290 B | 64 J B | 230 B | 45 JB | 43 J B | | | | |
| TPH-DRO | mg/Kg | 5.5 | 2.8 J | 38 | 26 | 3.4 J | 4.6 | 4.2 | 4.8 | 4.8 | 4.9 | a,b,c,d,e | | | |
| TPH-GRO | mg/Kg | ND | ND | 92 | 110 | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | 1.2 J | ND | ND | ND | ND | a,b,c,d,e | | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND | ND | ND | 350 | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 5.40E+00 | 2.70E+01 |
| Xylenes | ug/Kg | ND | ND | ND | 190 J | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND | ND | ND | 540 | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| EOX | mg/Kg | ND | ND | ND | ND | ND | | | ND | ND | 17 | a,b,c,d,e | | | |
| Volatile Organic Constituents (Method 8260) | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | | | | | | ND | ND | | | | | | 8.70E+03 | 3.80E+04 |
| 1,1,2,2-Tetrachloroethane | ug/Kg | | | | | | ND | ND | | | | | | 5.60E-01 | 2.80E+00 |
| 1,1,2-Trichloro-1,2,2-trifluoroethan | ug/Kg | | | | | | ND | ND | | | | | | 4.30E+04 | 1.80E+05 |
| 1,1,2-Trichloroethane | ug/Kg | | | | | | ND | ND | | | | | | 1.10E+00 | 5.30E+00 |
| 1,1-Dichloroethane | ug/Kg | | | | | | ND | ND | | | | | | 3.30E+00 | 1.70E+01 |
| 1,1-Dichloroethene | ug/Kg | | | | | | ND | ND | | | | | | 2.40E+02 | 1.10E+03 |
| 1,2,4-Trichlorobenzene | ug/Kg | | | | | | ND | ND | | | | | | 2.20E+01 | 9.90E+01 |
| 1,2-Dibromo-3-chloropropane | ug/Kg | | | | | | ND | ND | | | | | | 5.40E-03 | 6.90E-02 |
| 1,2-Dibromoethane | ug/Kg | | | | | | ND | ND | | | | | | 3.40E-02 | 1.70E-01 |
| 1,2-Dichlorobenzene | ug/Kg | | | | | | ND | ND | | | | | | 1.90E+03 | 9.80E+03 |
| 1,2-Dichloroethane | ug/Kg | | | | | | ND | ND | | | | | | 4.30E-01 | 2.20E+00 |
| 1,2-Dichloropropane | ug/Kg | | | | | | ND | ND | | | | | | 9.40E-01 | 4.70E+00 |
| 1,3-Dichlorobenzene | ug/Kg | | | | | | ND | ND | | | | | | | |
| 1,4-Dichlorobenzene | ug/Kg | | | | | | ND | ND | | | | | | 2.40E+00 | 1.20E+01 |
| 2-Butanone | ug/Kg | | | | | | 5.1 J | 6.0 J | | | | | | 2.80E+04 | 2.00E+05 |
| 2-Hexanone | ug/Kg | | | | | | ND | ND | | | | | | 2.10E+02 | 1.40E+03 |
| 4-Methyl-2-pentanone | ug/Kg | | | | | | ND | ND | | | | | | 5.30E+03 | 5.30E+04 |
| Acetone | ug/Kg | | | | | | 22 J | ND | | | | | | 6.10E+04 | 6.30E+05 |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | 1.2 J | ND | ND | ND | ND | | | 1.10E+00 | 5.40E+00 |
| Bromodichloromethane | ug/Kg | | | | | | ND | ND | | | | | | 2.70E-01 | 1.40E+00 |
| Bromoform | ug/Kg | | | | | | ND | ND | | | | | | 6.20E+01 | 2.20E+02 |
| Bromomethane | ug/Kg | | | | | | ND | ND | | | | | | 7.30E+00 | 3.20E+01 |
| Carbon disulfide | ug/Kg | | | | | | 3.2 J | ND | | | | | | 8.20E+02 | 3.70E+03 |
| Carbon tetrachloride | ug/Kg | | | | | | ND | ND | | | | | | 6.10E-01 | 3.00E+00 |
| Chlorobenzene | ug/Kg | | | | | | ND | ND | | | | | | 2.90E+02 | 1.40E+03 |
| Chloroethane | ug/Kg | | | | | | ND | ND | | | | | | | |
| Chloroform | ug/Kg | | | | | | ND | ND | | | | | | 2.90E-01 | 1.50E+00 |
| Chloromethane | ug/Kg | | | | | | ND | ND | | | | | | 1.20E+02 | 5.00E+02 |
| cis-1,2-Dichloroethene | ug/Kg | | | | | | ND | ND | | | | | | 1.60E+02 | 2.00E+03 |
| cis-1,3-Dichloropropene | ug/Kg | | | | | | ND | ND | | | | | | 1.70E+00 | 8.30E+00 |
| Cyclohexane | ug/Kg | | | | | | ND | ND | | | | | | 7.00E+03 | 2.90E+04 |
| Dibromochloromethane | ug/Kg | | | | | | ND | ND | | | | | | 6.80E-01 | 3.30E+00 |
| Dichlorodifluoromethane | ug/Kg | | | | | | ND | ND | | | | | | 9.40E+01 | 4.00E+02 |
| Ethylbenzene | ug/Kg | ND | ND | ND | 350 | ND | ND | ND | ND | ND | ND | | | 5.40E+00 | 2.70E+01 |
| Isopropylbenzene | ug/Kg | | | | | | ND | ND | | | | | | 2.10E+03 | 1.10E+04 |
| Xylenes (Total) | ug/Kg | ND | ND | ND | 190 J | ND | ND | ND | ND | ND | ND | | | 5.90E+02 | 2.50E+03 |
| Methyl acetate | ug/Kg | | | | | | ND | ND | | | | | | 7.80E+04 | 1.00E+06 |
| Methyl tert-butyl ether | ug/Kg | | | | | | 3.4 J | ND | | | | | | 4.30E+01 | 2.20E+02 |
| Methylcyclohexane | ug/Kg | | | | | | 3.3 J | ND | | | | | | | |
| Methylene chloride | ug/Kg | | | | | | ND | ND | | | | | | 5.60E+01 | 9.60E+02 |
| Styrene | ug/Kg | | | | | | ND | ND | | | | | | 6.30E+03 | 3.60E+04 |
| Tetrachloroethene | ug/Kg | | | | | | ND | ND | | | | | | 2.20E+01 | 1.10E+02 |
| Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | 5.00E+03 | 4.50E+04 |
| trans-1,2-Dichloroethene | ug/Kg | | | | | | ND | ND | | | | | | 1.50E+02 | 6.90E+02 |
| trans-1,3-Dichloropropene | ug/Kg | | | | | | ND | ND | | | | | | | |
| Trichloroethene | ug/Kg | | | | | | ND | ND | | | | | | 9.10E-01 | 6.40E+00 |
| Trichlorofluoromethane | ug/Kg | | | | | | ND | ND | | | | | | 7.90E+02 | 3.40E+03 |
| Vinyl chloride | ug/Kg | | | | | | ND | ND | | | | | | 6.00E-02 | 1.70E+00 |

| Pond 25<br>Parcels: 031, 032, 034, 051, 052, 053, 054, 055, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-031-47W | 3E-032-48W | 3E-034-49W | 3E-034-49W | 3E-034-50W | 3E-VDOT-51W | 3E-031-52W | 3E-033-53W | 3E-VDOT-54W | 3E-VDOT-55W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 47W @ 2-4' | 48W @ 3-5' | 49W @ 8-10' | 49WD @ 8-10' | 50W @ 9-11' | 51W @ 8-10' | 52W @ 2-4' | 53W @ 4-6' | 54W @ 2-4' | 55W @ 3-5' | | | | |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | Residential | Industrial |
| Semi-Volatile Constituents (Method 8270C) | | | | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/Kg | | | | | | ND | ND | | | | | | 5.10E+01 | 2.10E+02 |
| 2,4,5-Trichlorophenol | ug/Kg | | | | | | ND | ND | | | | | | 6.10E+03 | 6.20E+04 |
| 2,4,6-Trichlorophenol | ug/Kg | | | | | | ND | ND | | | | | | 4.40E+01 | 1.60E+02 |
| 2,4-Dichlorophenol | ug/Kg | | | | | | ND | ND | | | | | | 1.80E+02 | 1.80E+03 |
| 2,4-Dimethylphenol | ug/Kg | | | | | | ND | ND | | | | | | 1.20E+03 | 1.20E+04 |
| 2,4-Dinitrophenol | ug/Kg | | | | | | ND | ND | | | | | | 1.20E+02 | 1.20E+03 |
| 2,4-Dinitrotoluene | ug/Kg | | | | | | ND | ND | | | | | | 1.60E+00 | 5.50E+00 |
| 2,6-Dinitrotoluene | ug/Kg | | | | | | ND | ND | | | | | | 6.10E+01 | 6.20E+02 |
| 2-Chloronaphthalene | ug/Kg | | | | | | ND | ND | | | | | | 6.30E+03 | 8.20E+04 |
| 2-Chlorophenol | ug/Kg | | | | | | ND | ND | | | | | | 3.90E+02 | 5.10E+03 |
| 2-Methylnaphthalene | ug/Kg | | | | | | ND | ND | | | | | | 2.30E+02 | 2.20E+03 |
| 2-Methylphenol | ug/Kg | | | | | | ND | ND | | | | | | | |
| 2-Nitroaniline | ug/Kg | | | | | | ND | ND | | | | | | 6.10E+02 | 6.00E+03 |
| 2-Nitrophenol | ug/Kg | | | | | | ND | ND | | | | | | | |
| 3,3'-dicholorobenzidine | ug/Kg | | | | | | ND | ND | | | | | | 1.10E+00 | 3.80E+00 |
| 3-Nitroaniline | ug/Kg | | | | | | ND | ND | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/Kg | | | | | | ND | ND | | | | | | | |
| 4-Bromophenyl-phenylether | ug/Kg | | | | | | ND | ND | | | | | | | |
| 4-Chloro-3-methylphenol | ug/Kg | | | | | | ND | ND | | | | | | | |
| 4-Chloroaniline | ug/Kg | | | | | | ND | ND | | | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/Kg | | | | | | ND | ND | | | | | | | |
| 4 and 3-Methylphenol | ug/Kg | | | | | | ND | ND | | | | | | | |
| 4-Nitroaniline | ug/Kg | | | | | | ND | ND | | | | | | 2.40E+01 | 8.60E+01 |
| 4-Nitrophenol | ug/Kg | | | | | | ND | ND | | | | | | | |
| Acenaphthene | ug/Kg | | | | | | ND | ND | | | | | | 3.40E+03 | 3.30E+04 |
| Acenaphthylene | ug/Kg | | | | | | ND | ND | | | | | | | |
| Acetophenone | ug/Kg | | | | | | ND | ND | | | | | | 7.80E+03 | 1.00E+05 |
| Anthracene | ug/Kg | | | | | | ND | ND | | | | | | 1.70E+04 | 1.70E+05 |
| Atrazine | ug/Kg | | | | | | ND* | ND* | | | | | | 2.10E+00 | 7.50E+00 |
| Benzaldehyde | ug/Kg | | | | | | ND | ND | | | | | | 7.80E+03 | 1.00E+05 |
| Benzo(a) pyrene | ug/Kg | | | | | | ND | ND | | | | | | 1.50E-02 | 2.10E-01 |
| Benzo(a)anthracene | ug/Kg | | | | | | ND | ND | | | | | | 1.50E-01 | 2.10E+00 |
| Benzo(b) fluoranthene | ug/Kg | | | | | | ND | ND | | | | | | 1.50E-01 | 2.10E+00 |
| Benzo(g,h,i) perylene | ug/Kg | | | | | | ND | ND | | | | | | | |
| Benzo(k) fluoranthene | ug/Kg | | | | | | ND | ND | | | | | | 1.50E+00 | 2.10E+01 |
| Bis(2-chloroethoxy) methane | ug/Kg | | | | | | ND | ND | | | | | | 1.80E+02 | 1.80E+03 |
| Bis(2-chloroethyl) ether | ug/Kg | | | | | | ND | ND | | | | | | 2.10E-01 | 1.00E+00 |
| Bis(2-ethylhexyl) phthalate | ug/Kg | | | | | | ND | 68 J | | | | | | 3.50E+01 | 1.20E+02 |
| Butylbenzylphthalate | ug/Kg | | | | | | ND | ND | | | | | | 2.60E+02 | 9.10E+02 |
| Caprolactam | ug/Kg | | | | | | ND | ND | | | | | | 3.10E+04 | 3.10E+05 |
| Carbazole | ug/Kg | | | | | | ND | ND | | | | | | | |
| Chrysene | ug/Kg | | | | | | ND | ND | | | | | | 1.50E+01 | 2.10E+02 |
| Dibenzo(a,h) anthracene | ug/Kg | | | | | | ND | ND | | | | | | 1.50E-02 | 2.10E-01 |
| Dibenzofuran | ug/Kg | | | | | | ND | ND | | | | | | 7.80E+01 | 1.00E+03 |
| Diethylphthalate | ug/Kg | | | | | | ND | ND | | | | | | 4.90E+04 | 4.90E+05 |
| Dimethylphthalate | ug/Kg | | | | | | ND | ND | | | | | | | |
| Di-n-butylphthalate | ug/Kg | | | | | | ND | ND | | | | | | | |
| Di-n-octylphthalate | ug/Kg | | | | | | ND | ND | | | | | | | |
| Fluoranthene | ug/Kg | | | | | | ND | ND | | | | | | 2.30E+03 | 2.20E+04 |
| Fluorene | ug/Kg | | | | | | ND | ND | | | | | | 2.30E+03 | 2.20E+04 |
| Hexachlorobenzene | ug/Kg | | | | | | ND | ND | | | | | | 3.00E-01 | 1.10E+00 |
| Hexachlorobutadiene | ug/Kg | | | | | | ND | ND | | | | | | 6.20E+00 | 2.20E+01 |
| Hexachlorocyclopentadiene | ug/Kg | | | | | | ND | ND | | | | | | 3.70E+02 | 3.70E+03 |
| Hexachloroethane | ug/Kg | | | | | | ND | ND | | | | | | 1.20E+01 | 4.30E+01 |
| Indeno(1,2,3,-cd) pyrene | ug/Kg | | | | | | ND | ND | | | | | | 1.50E-01 | 2.10E+00 |
| Isophorone | ug/Kg | | | | | | ND | ND | | | | | | 5.10E+02 | 1.80E+03 |

| Pond 25<br>Parcels: 031, 032, 034, 051, 052, 053, 054, 055, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-031-47W | 3E-032-48W | 3E-034-49W | 3E-034-49W | 3E-034-50W | 3E-VDOT-51W | 3E-031-52W | 3E-033-53W | 3E-VDOT-54W | 3E-VDOT-55W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 47W @ 2-4' | 48W @ 3-5' | 49W @ 8-10' | 49WD @ 8-10' | 50W @ 9-11' | 51W @ 8-10' | 52W @ 2-4' | 53W @ 4-6' | 54W @ 2-4' | 55W @ 3-5' | | | | |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | Residential | Industrial |
| **Semi-Volatile Constituents (continued) (Method 8270C)** | | | | | | | | | | | | | | | |
| Naphthalene | ug/Kg | | | | | | ND | ND | | | | | | 3.60E+00 | 1.80E+01 |
| Nitrobenzene | ug/Kg | | | | | | ND | ND | | | | | | 4.80E+00 | 2.40E+01 |
| N-Nitroso-di-n propylamine | ug/Kg | | | | | | ND | ND | | | | | | 6.90E-02 | 2.50E-01 |
| N-Nitrosodiphenylamine | ug/Kg | | | | | | 85 J | ND | | | | | | 9.90E+01 | 3.50E+02 |
| Pentachlorophenol | ug/Kg | | | | | | ND | ND | | | | | | 8.90E-01 | 2.70E+00 |
| Phenanthrene | ug/Kg | | | | | | ND | ND | | | | | | | |
| Phenol | ug/Kg | | | | | | ND | ND | | | | | | 1.80E+04 | 1.80E+05 |
| Pyrene | ug/Kg | | | | | | ND | ND | | | | | | 1.70E+03 | 1.70E+04 |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | | |
| Arsenic | mg/Kg | | | | | | ***4*** | **0.65 J** | | | | | | 3.90E-01 | 1.60E+00 |
| Barium | mg/Kg | | | | | | 7.1 J B | 9.3 J B | | | | | | 1.50E+04 | 1.90E+05 |
| Cadmium | mg/Kg | | | | | | 0.046 J | ND | | | | | | 7.00E+01 | 8.00E+02 |
| Chromium | mg/Kg | | | | | | **5.3 B** | **4.7B** | | | | | | 2.90E-01 | 5.60E+00 |
| Lead | mg/Kg | | | | | | 2.2 | 2.5 | | | | | | 4.00E+02 | 8.00E+02 |
| Mercury | mg/Kg | | | | | | ND | ND | | | | | | 1.00E+01 | 4.30E+01 |
| Selenium | mg/Kg | | | | | | 0.22 J | ND | | | | | | 3.90E+02 | 5.10E+03 |
| Silver | mg/Kg | | | | | | ND | ND | | | | | | 3.90E+02 | 5.10E+03 |
| **PCBs (Method 8082)** | | | | | | | | | | | | | | | |
| Aroclor-1016 | ug/Kg | | | | | | ND | ND | | | | | | 3.90E+00 | 2.10E+01 |
| Aroclor-1221 | ug/Kg | | | | | | ND | ND | | | | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1232 | ug/Kg | | | | | | ND | ND | | | | | | 1.40E-01 | 5.40E-01 |
| Aroclor-1242 | ug/Kg | | | | | | ND | ND | | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1248 | ug/Kg | | | | | | ND | ND | | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1254 | ug/Kg | | | | | | ND | ND | | | | | | 2.20E-01 | 7.40E-01 |
| Aroclor-1260 | ug/Kg | | | | | | ND | ND | | | | | | 2.20E-01 | 7.40E-01 |
| **Total PCBs** | ug/Kg | | | | | | ND | ND | | | | | 50 [2] | | |
| **WASTE CHARACTERISTICS [1]** | | | | | | | | | | | | | | | |
| **TCLP RCRA Metals (Methods 1311 TCLP, 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | | |
| Arsenic | mg/L | | | | | | ND | ND | | | | | 5 | | |
| Barium | mg/L | | | | | | 0.13 J | 0.22 | | | | | 100 | | |
| Cadmium | mg/L | | | | | | 0.00096 J B | ND | | | | | 1 | | |
| Chromium | mg/L | | | | | | 0.0012 J | 0.0019 J | | | | | 5 | | |
| Lead | mg/L | | | | | | 0.0057 J | 0.0098 J | | | | | 5 | | |
| Mercury | mg/L | | | | | | ND | ND | | | | | 0.02 | | |
| Selenium | mg/L | | | | | | 0.0067 J B | 0.0040 J B | | | | | 1 | | |
| Silver | mg/L | | | | | | ND | ND | | | | | 5 | | |
| **TCLP VOCs (Methods 1311 & 8260B)** | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | mg/L | | | | | | ND | ND | | | | | 0.7 | | |
| 1,2-Dichloroethane | mg/L | | | | | | ND | ND | | | | | 0.5 | | |
| 1,4-Dichlorobenzene | mg/L | | | | | | ND | ND | | | | | 7.5 | | |
| Benzene | mg/L | | | | | | ND | ND | | | | | 0.5 | | |
| Carbon tetrachloride | mg/L | | | | | | ND | ND | | | | | 0.5 | | |
| Chlorobenzene | mg/L | | | | | | ND | ND | | | | | 100 | | |
| Chloroform | mg/L | | | | | | ND | ND | | | | | 6 | | |
| Methyl ethyl ketone | mg/L | | | | | | ND | ND | | | | | 200 | | |
| Tetrachloroethene | mg/L | | | | | | ND | ND | | | | | 0.7 | | |
| Trichloroethene | mg/L | | | | | | ND | ND | | | | | 0.5 | | |
| Vinyl chloride | mg/L | | | | | | ND | ND | | | | | 0.2 | | |

| Pond 25<br>Parcels: 031, 032, 034, 051, 052, 053, 054, 055, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-031-47W | 3E-032-48W | 3E-034-49W | 3E-034-49W | 3E-034-50W | 3E-VDOT-51W | 3E-031-52W | 3E-033-53W | 3E-VDOT-54W | 3E-VDOT-55W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 47W @ 2-4' | 48W @ 3-5' | 49W @ 8-10' | 49WD @ 8-10' | 50W @ 9-11' | 51W @ 8-10' | 52W @ 2-4' | 53W @ 4-6' | 54W @ 2-4' | 55W @ 3-5' | | | Residential | Industrial |
| Analytical Constituent | Units | Results** | | | | | | | | | | | | | |
| **TCLP SVOC (Methods 1311 & 8270C)** | | | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | mg/L | | | | | | ND | ND | | | | | 400 | | |
| 2,4,6-Trichlorophenol | mg/L | | | | | | ND | ND | | | | | 2 | | |
| 2,4-Dinitrotoluene | mg/L | | | | | | ND | ND | | | | | 0.13 | | |
| Hexachloro-1,3-butadiene | mg/L | | | | | | ND | ND | | | | | 0.5 | | |
| Hexachlorobenzene | mg/L | | | | | | ND | ND | | | | | 0.13 | | |
| Hexachloroethane | mg/L | | | | | | ND | ND | | | | | 3 | | |
| m-Cresol (3-Methylphenol) | mg/L | | | | | | ND | ND | | | | | 200 | | |
| Nitrobenzene | mg/L | | | | | | ND | ND | | | | | 2 | | |
| o-Cresol (2-Methylphenol) | mg/L | | | | | | ND | ND | | | | | 200 | | |
| p-Cresol (4-Methylphenol) | mg/L | | | | | | ND | ND | | | | | 200 | | |
| Pentachlorophenol | mg/L | | | | | | ND | ND | | | | | 100 | | |
| Pyridine | mg/L | | | | | | ND | ND | | | | | 5 | | |
| **General Chemistry** | | | | | | | | | | | | | | | |
| Cyanide | mg/Kg | | | | | | 0.31 J | 0.14 J | | | | | < 250 mg/kg | | |
| Sulfide | mg/Kg | | | | | | 45 | 29 J | | | | | < 500mg/kg | | |
| pH | | | | | | | 7.25 H | 5.1 H | | | | | <2 or >12.5 | | |
| Ignitability (Flashpoint) | F | | | | | | >140 | >140 | | | | | < 140F | | |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

** Bold values exceed Residential Risk Based Concentrations

Bold and Italic values exceed Industrial Risk Based Concentrations

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.

b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.

c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.

d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.

e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

[1] 40 CFR Part 261.4

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| County St. to London Blvd. Parcels: 056 to 067, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-036-56 | 3E-VDOT-57 | 3E-046-61 | 3E-054-62 | 3E-059-65 | 3E-VDOT-66W | 3E-VDOT-67W | VDEQ Clean Fill Criteria | Other Regulatory Criteria (mg/L) | Risk Based Concentrations Soil (mg/kg) | |
| Sample ID: | | 56 @ 2-4' | 57 @ 2-4' | 61 @ 0-1' | 62 @ 4-6' | 65 @ 4-6' | 66W @ 3-5' | 67W @ 3-5' | | | | |
| Analytical Constituent | Units | Results | | | | | | | | | Residential | Industrial |
| Oil and Grease | mg/Kg | 25 J B | 50 J B | 73 J B | 63 J B | 47 J B | 83 J | 60 J | | | | |
| TPH-DRO | mg/Kg | 5.7 | 2.7 J | 10 | ND | 3.7 J | 3.4 J | 2.5 J | a,b,c,d,e | | | |
| TPH-GRO | mg/Kg | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| Benzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 1.10E+00 | 5.40E+00 |
| Toluene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 5.00E+03 | 4.50E+04 |
| Ethylbenzene | ug/Kg | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 5.40E+00 | 2.70E+01 |
| Xylenes | ug/Kg | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | 6.30E+02 | 2.73E+03 |
| Total BTEX | ug/Kg | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |
| EOX | mg/Kg | ND | ND | ND | ND | ND | ND | ND | a,b,c,d,e | | | |

**NOTES:**

ND - Not Detected Above the Laboratory's Method Detection Limit

a. Soils exhibiting greater than 100 milligram per kilogram (mg/kg) of TOX may not be disposed until separate approval from the department is granted. This request shall document the cause for the high TOX level.

b. If the concentration of total BTEX is greater than 10 mg/kg or TPH is greater than 500 mg/kg, the soil cannot be disposed of in any landfill unless the facility permit expressly allows such disposal.

c. If the concentration of TPH is greater than 50 mg/kg and less than 500 mg/kg and total BTEX is less than 10 mg/kg, the disposal of the contaminated soil may be approved for permitted landfills equipped with liners and leachate collection systems.

d. Soil containing less than 50 mg/kg TPH and total BTEX less than 10 mg/kg may be used as fill material. This soil, however, may not be disposed of closer than 100 feet of any regularly flowing surface water body or river, 500 feet of any well, spring or other groundwater source of drinking water, and 200 feet from any residence, school, hospital, nursing home, or recreational park area. In addition, if the soil is not to be disposed of on the generator's property, the generator shall notify the property owner that the soil is contaminated and with what it is contaminated.

e. Soil contaminated with compounds other than petroleum and that is not hazardous waste shall be disposed of according to the criteria approved by the department.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Pond 8<br>Parcels: VDOT | | Boring /<br>Groundwater Sampling Point | | Regulatory Standards | | |
|---|---|---|---|---|---|---|
| Boring ID: | | 3E-Pond 8-69W | 3E-Pond 8-70W | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 69W | 70W | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | 9.2 J | ND | | | |
| TPH-DRO | mg/L | 0.2 | 0.16 | | | |
| TPH-GRO | mg/L | ND | ND | | | |
| Benzene | ug/L | ND | ND | | | 5.10E+02 |
| Toluene | ug/L | ND | ND | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | ND | | | 2.10E+03 |
| Xylenes | ug/L | ND | ND | | | |
| TOX | mg/L | 0.094 | 0.048 | | | |

**NOTES:**

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| PVMF & NPBL<br><br>Parcels: 005, 006 | | Boring / Groundwater Sampling Point | Regulatory Standard | | | |
|---|---|---|---|---|---|---|
| Boring ID: | | 3E-006-02W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 02W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | ND | | | | |
| TPH-DRO | mg/L | 0.081 J | | | | |
| TPH-GRO | mg/L | ND | | | | |
| Benzene | ug/L | ND | | | | 5.10E+02 |
| Toluene | ug/L | ND | | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | | | | |
| o-Xylene | ug/L | ND | | | | |
| m&p-Xylene | ug/L | ND | | | | |
| TOX | mg/L | | | | | |
| **Volatile Organic Constituents** | | | | | | |
| 1,1,1-Trichloroethane | ug/L | ND | | | | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | | | | 4.00E+01 |
| 1,1,2-Trichloro-1,2,2-trifluoroethan | ug/L | ND | | | | |
| 1,1,2-Trichloroethane | ug/L | ND | | | | 1.60E+02 |
| 1,1-Dichloroethane | ug/L | ND | | | | |
| 1,1-Dichloroethene | ug/L | ND | | | | 7.10E+03 |
| 1,2,4-Trichlorobenzene | ug/L | 1.2 J B * | | | | 7.00E+01 |
| 1,2-Dibromo-3-chloropropane | ug/L | ND* | | | | |
| 1,2-Dibromoethane | ug/L | ND | | | | |
| 1,2-Dichlorobenzene | ug/L | ND | | | | 1.30E+03 |
| 1,2-Dichloroethane | ug/L | ND | | | | 3.70E+02 |
| 1,2-Dichloropropane | ug/L | ND | | | | 1.50E+02 |
| 1,3-Dichlorobenzene | ug/L | ND | | | | 9.60E+02 |
| 1,4-Dichlorobenzene | ug/L | ND | | | | 1.90E+02 |
| 2-Butanone | ug/L | ND | | | | |
| 2-Hexanone | ug/L | ND | | | | |
| 4-Methyl-2-pentanone | ug/L | ND | | | | |
| Acetone | ug/L | ND | | | | |
| Benzene | ug/L | ND | | | | 5.10E+02 |
| Bromodichloromethane | ug/L | ND | | | | |
| Bromoform | ug/L | ND | | | | 1.40E+03 |
| Bromomethane | ug/L | ND | | | | |
| Carbon disulfide | ug/L | ND* | | | | |
| Carbon tetrachloride | ug/L | ND | | | | 1.60E+01 |
| Chlorobenzene | ug/L | ND | | | | 1.60E+03 |
| Chloroethane | ug/L | ND* | | | | |
| Chloroform | ug/L | ND | | | | 1.10E+04 |
| Chloromethane | ug/L | ND* | | | | |
| cis-1,2-Dichloroethene | ug/L | ND | | | | |
| cis-1,3-Dichloropropene | ug/L | ND | | | | |
| Cyclohexane | ug/L | ND | | | | |
| Dibromochloromethane | ug/L | ND | | | | |
| Dichlorodifluoromethane | ug/L | ND* | | | | |
| Ethylbenzene | ug/L | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | | | | |
| Isopropylbenzene | ug/L | ND | | | | |
| m,p-Xylene | ug/L | ND | | | | |
| Methyl acetate | ug/L | ND | | | | |
| Methyl tert-butyl ether | ug/L | ND* | | | | |
| Methylcyclohexane | ug/L | ND* | | | | |
| Methylene chloride | ug/L | ND* | | | | 5.90E+03 |
| o-Xylene | ug/L | ND | | | | |
| Styrene | ug/L | ND | | | | |
| Tetrachloroethene | ug/L | ND | | | | 3.30E+01 |
| Toluene | ug/L | ND | | | | 6.00E+03 |
| trans-1,2-Dichloroethene | ug/L | ND | | | | 1.00E+04 |
| trans-1,3-Dichloropropene | ug/L | ND | | | | |
| Trichloroethene | ug/L | ND | | | | 3.00E+02 |
| Trichlorofluoromethane | ug/L | ND* | | | | |
| Vinyl chloride | ug/L | ND* | | | | 2.40E+01 |

| PVMF & NPBL<br><br>Parcels: 005, 006 | | Boring / Groundwater Sampling Point | Regulatory Standard | | | |
|---|---|---|---|---|---|---|
| Boring ID: | | 3E-006-02W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 02W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | Acute | Chronic | Non-public water supply |
| **Semi-Volatile Constituents** | | | | | | |
| 1,1'-Biphenyl | ug/L | ND | | | | |
| 2,4,5-Trichlorophenol | ug/L | ND | | | | |
| 2,4,6-Trichlorophenol | ug/L | ND | | | | 2.40E+01 |
| 2,4-Dichlorophenol | ug/L | ND | | | | 2.90E+02 |
| 2,4-Dimethylphenol | ug/L | ND | | | | 8.50E+02 |
| 2,4-Dinitrophenol | ug/L | ND | | | | 5.30E+03 |
| 2,4-Dinitrotoluene | ug/L | ND | | | | 3.40E+01 |
| 2,6-Dinitrotoluene | ug/L | ND | | | | |
| 2-Chloronaphthalene | ug/L | ND | | | | 1.60E+03 |
| 2-Chlorophenol | ug/L | ND | | | | 1.50E+02 |
| 2-Methylnaphthalene | ug/L | ND | | | | |
| 2-Methylphenol | ug/L | ND | | | | |
| 2-Nitroaniline | ug/L | ND | | | | |
| 2-Nitrophenol | ug/L | ND | | | | |
| 3,3'-dicholorobenzidine | ug/L | ND | | | | |
| 3-Nitroaniline | ug/L | ND | | | | |
| 4,6-Dinitro-2-methylphenol | ug/L | ND | | | | |
| 4-Bromophenyl-phenylether | ug/L | ND | | | | |
| 4-Chloro-3-methylphenol | ug/L | ND | | | | |
| 4-Chloroaniline | ug/L | ND | | | | |
| 4-Chlorophenyl-phenyl ether | ug/L | ND | | | | |
| 4&3-Methylphenol | ug/L | ND | | | | |
| 4-Nitroaniline | ug/L | ND | | | | |
| 4-Nitrophenol | ug/L | ND | | | | |
| Acenaphthene | ug/L | ND | | | | |
| Acenaphthylene | ug/L | ND | | | | |
| Acetophenone | ug/L | ND | | | | |
| Anthracene | ug/L | ND | | | | 4.00E+04 |
| Atrazine | ug/L | ND | | | | |
| Benzaldehyde | ug/L | ND | | | | |
| Benzo(a) pyrene | ug/L | ND | | | | 1.80E-01 |
| Benzo(a)anthracene | ug/L | ND | | | | 1.80E-01 |
| Benzo(b) fluoranthene | ug/L | ND | | | | 1.80E-01 |
| Benzo(g,h,i) perylene | ug/L | ND | | | | |
| Benzo(k) fluoranthene | ug/L | ND | | | | 1.80E-01 |
| Bis(2-chloroethoxy) methane | ug/L | ND | | | | |
| Bis(2-chloroethyl) ether | ug/L | ND | | | | |
| Bis(2-ethylhexyl) phthalate | ug/L | ND | | | | 2.20E+01 |
| Butylbenzylphthalate | ug/L | ND | | | | |
| Caprolactam | ug/L | ND | | | | |
| Carbazole | ug/L | ND | | | | |
| Chrysene | ug/L | ND | | | | 1.80E-02 |
| Dibenzo(a,h) anthracene | ug/L | ND | | | | 1.80E-01 |
| Dibenzofuran | ug/L | ND | | | | |
| Diethylphthalate | ug/L | ND | | | | |
| Dimethylphthalate | ug/L | ND | | | | |
| Di-n-butylphthalate | ug/L | ND | | | | |
| Di-n-octylphthalate | ug/L | ND | | | | |
| Fluoranthene | ug/L | ND | | | | 1.40E+02 |
| Fluorene | ug/L | ND | | | | 5.30E+03 |
| Hexachlorobenzene | ug/L | ND | | | | 2.90E-03 |
| Hexachlorobutadiene | ug/L | ND | | | | 1.80E+02 |
| Hexachlorocyclopentadiene | ug/L | ND | | | | 1.10E+03 |
| Hexachloroethane | ug/L | ND | | | | |
| Indeno(1,2,3,-cd) pyrene | ug/L | ND | | | | 1.80E-01 |
| Isophorone | ug/L | ND | | | | 9.60E+03 |
| Naphthalene | ug/L | ND | | | | |
| Nitrobenzene | ug/L | ND | | | | 6.90E+02 |
| N-Nitroso-di-n propylamine | ug/L | ND | | | | |
| N-Nitrosodiphenylamine | ug/L | ND | | | | 160 60 |
| Pentachlorophenol | ug/L | ND | | 8.70E+00 | 6.70E+00 | 3.00E+01 |
| Phenanthrene | ug/L | ND | | | | |
| Phenol | ug/L | ND | | | | 8.60E+05 |
| Pyrene | ug/L | ND | | | | 4.00E+03 |
| **RCRA Metals** | | | | | | |
| Arsenic | ug/L | 15 | | 3.40E+02 | 1.50E+02 | |
| Barium | ug/L | 290 | | | | |
| Cadmium | ug/L | 0.91 J | | 3.9 [4] | 1.1 [4] | |
| Chromium | ug/L | 160 | | | | |
| Lead | ug/L | 99 | | 120 [5] | 14 [5] | |
| Mercury | ug/L | 0.49 | | 1.40E+00 | 7.70E-01 | |
| Selenium | ug/L | ND | | 2.00E+01 | 5.00E+00 | 4.20E+03 |
| Silver | ug/L | ND | | 3.4 [6] | | |

| PVMF & NPBL<br><br>Parcels: 005, 006 | | Boring / Groundwater Sampling Point | Regulatory Standard | | | |
|---|---|---|---|---|---|---|
| Boring ID: | | 3E-006-02W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 02W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | Acute | Chronic | Non-public water supply |
| PCBs | | | | | | |
| Aroclor-1016 | ug/L | ND | | | | |
| Aroclor-1221 | ug/L | ND | | | | |
| Aroclor-1232 | ug/L | ND | | | | |
| Aroclor-1242 | ug/L | ND | | | | |
| Aroclor-1248 | ug/L | ND | | | | |
| Aroclor-1254 | ug/L | ND | | | | |
| Aroclor-1260 | ug/L | ND | | | | |
| **Total PCBs** | ug/L | ND | 50 [2] | | 0.014 | 0.00064 |

**NOTES:**

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-008-04W | 3E-008-06W | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 04W | 06W | 06WD | 07W | 08W | 09W | 10W | 10WD | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | 19 J B | 4.6 J | 2.2 J | 2.4 J | 1.5 J | 1.6 J | 3.1 J | 3.8 J | | | | |
| TPH-DRO | mg/L | 0.19 | 0.65 | 0.76 | 0.18 | 0.39 | 0.21 | 0.088 J | 0.093 J | | | | |
| TPH-GRO | mg/L | ND | ND | ND | .039 J | ND | ND | ND | ND | | | | |
| Benzene | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | | | | 5.10E+02 |
| Toluene | ug/L | ND | ND | ND | 1.3 J | ND | ND | ND | ND | | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | ND | ND | 1.3 J | ND | ND | ND | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | ND | ND | 6.4 J | ND | ND | ND | ND | | | | |
| o-Xylene | ug/L | | ND | ND | 1.6 J | | | | | | | | |
| m&p-Xylene | ug/L | | ND | ND | 4.8 J | | | | | | | | |
| TOX | mg/L | 0.1 | | | | 0.06 | 0.078 | 0.021 | | | | | |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | | ND | ND | ND | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ug/L | | ND | ND | ND | | | | | | | | 4.00E+01 |
| 1,1,2-Trichloro-1,2,2-trifluoroethan | ug/L | | ND | ND | ND | | | | | | | | |
| 1,1,2-Trichloroethane | ug/L | | ND | ND | ND | | | | | | | | 1.60E+02 |
| 1,1-Dichloroethane | ug/L | | ND | ND | ND | | | | | | | | |
| 1,1-Dichloroethene | ug/L | | ND | ND | ND | | | | | | | | 7.10E+03 |
| 1,2,4-Trichlorobenzene | ug/L | | ND | ND | ND | | | | | | | | 7.00E+01 |
| 1,2-Dibromo-3-chloropropane | ug/L | | ND | ND | ND | | | | | | | | |
| 1,2-Dibromoethane | ug/L | | ND | ND | ND | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | | ND | ND | ND | | | | | | | | 1.30E+03 |
| 1,2-Dichloroethane | ug/L | | ND | ND | ND | | | | | | | | 3.70E+02 |
| 1,2-Dichloropropane | ug/L | | ND | ND | ND | | | | | | | | 1.50E+02 |
| 1,3-Dichlorobenzene | ug/L | | ND | ND | ND | | | | | | | | 9.60E+02 |
| 1,4-Dichlorobenzene | ug/L | | ND | ND | ND | | | | | | | | 1.90E+02 |
| 2-Butanone | ug/L | | ND | ND | ND | | | | | | | | |
| 2-Hexanone | ug/L | | ND | ND | ND* | | | | | | | | |
| 4-Methyl-2-pentanone | ug/L | | ND | ND | ND | | | | | | | | |
| Acetone | ug/L | | ND | ND | ND * | | | | | | | | |
| Benzene | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | | | | 5.10E+02 |
| Bromodichloromethane | ug/L | | | | | | | | | | | | |
| Bromoform | ug/L | | ND | ND | ND | | | | | | | | 1.40E+03 |
| Bromomethane | ug/L | | ND | ND | | | | | | | | | |
| Carbon disulfide | ug/L | | ND | ND | ND | | | | | | | | |
| Carbon tetrachloride | ug/L | | ND | ND | ND | | | | | | | | 1.60E+01 |
| Chlorobenzene | ug/L | | ND | ND | ND | | | | | | | | 1.60E+03 |
| Chloroethane | ug/L | | ND | ND | ND | | | | | | | | |
| Chloroform | ug/L | | ND | ND | ND | | | | | | | | 1.10E+04 |
| Chloromethane | ug/L | | ND | ND | ND | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | | ND | ND | ND | | | | | | | | |
| cis-1,3-Dichloropropene | ug/L | | ND | ND | ND | | | | | | | | |
| Cyclohexane | ug/L | | ND | ND | ND | | | | | | | | |
| Dibromochloromethane | ug/L | | ND | ND | | | | | | | | | |
| Dichlorodifluoromethane | ug/L | | ND | ND | ND | | | | | | | | |
| Ethylbenzene | ug/L | ND | ND | ND | 1.3 J | ND | ND | ND | ND | | | | 2.10E+03 |
| Isopropylbenzene | ug/L | | ND | ND | ND | | | | | | | | |
| Xylenes (Total) | ug/L | ND | ND | ND | 6.4 J | ND | ND | ND | ND | | | | |
| o-Xylene | ug/L | | ND | ND | 1.6 J | | | | | | | | |
| m&p Xylenes | ug/L | | ND | ND | 4.8 J | | | | | | | | |

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-008-04W | 3E-008-06W | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 04W | 06W | 06WD | 07W | 08W | 09W | 10W | 10WD | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | Acute | Chronic | Non-public water supply |
| **Volatile Organic Constituents (continued) (Method 8260)** | | | | | | | | | | | | | |
| Methyl acetate | ug/L | | ND | ND | ND | | | | | | | | |
| Methyl tert-butyl ether | ug/L | | ND | ND | ND | | | | | | | | |
| Methylcyclohexane | ug/L | | ND | ND | ND | | | | | | | | |
| Methylene chloride | ug/L | | ND | ND | ND | | | | | | | | 5.90E+03 |
| Styrene | ug/L | | ND | ND | ND | | | | | | | | |
| Tetrachloroethene | ug/L | | ND | ND | ND | | | | | | | | 3.30E+01 |
| Toluene | ug/L | ND | ND | ND | 1.3 J | ND | ND | ND | ND | | | | 6.00E+03 |
| trans-1,2-Dichloroethene | ug/L | | ND | ND | ND | | | | | | | | 1.00E+04 |
| trans-1,3-Dichloropropene | ug/L | | ND | ND | ND | | | | | | | | |
| Trichloroethene | ug/L | | ND | ND | ND | | | | | | | | 3.00E+02 |
| Trichlorofluoromethane | ug/L | | ND | ND | ND | | | | | | | | |
| Vinyl chloride | ug/L | | ND | ND | ND | | | | | | | | 2.40E+01 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/L | | | | ND | | | | | | | | |
| 2,4,5-Trichlorophenol | ug/L | | | | ND | | | | | | | | |
| 2,4,6-Trichlorophenol | ug/L | | | | ND | | | | | | | | 2.40E+01 |
| 2,4-Dichlorophenol | ug/L | | | | ND | | | | | | | | 2.90E+02 |
| 2,4-Dimethylphenol | ug/L | | | | ND | | | | | | | | 8.50E+02 |
| 2,4-Dinitrophenol | ug/L | | | | ND | | | | | | | | 5.30E+03 |
| 2,4-Dinitrotoluene | ug/L | | | | ND | | | | | | | | 3.40E+01 |
| 2,6-Dinitrotoluene | ug/L | | | | ND | | | | | | | | |
| 2-Chloronaphthalene | ug/L | | | | | | | | | | | | 1.60E+03 |
| 2-Chlorophenol | ug/L | | | | ND | | | | | | | | 1.50E+02 |
| 2-Methylnaphthalene | ug/L | | | | ND | | | | | | | | |
| 2-Methylphenol | ug/L | | | | ND | | | | | | | | |
| 2-Nitroaniline | ug/L | | | | ND | | | | | | | | |
| 2-Nitrophenol | ug/L | | | | ND | | | | | | | | |
| 3,3'-dicholorobenzidine | ug/L | | | | ND | | | | | | | | |
| 3-Nitroaniline | ug/L | | | | ND | | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/L | | | | ND | | | | | | | | |
| 4-Bromophenyl-phenylether | ug/L | | | | ND | | | | | | | | |
| 4-Chloro-3-methylphenol | ug/L | | | | ND | | | | | | | | |
| 4-Chloroaniline | ug/L | | | | | | | | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/L | | | | | | | | | | | | |
| 4&3-Methylphenol | ug/L | | | | ND | | | | | | | | |
| 4-Nitroaniline | ug/L | | | | ND | | | | | | | | |
| 4-Nitrophenol | ug/L | | | | ND | | | | | | | | |
| Acenaphthene | ug/L | | | | ND | | | | | | | | |
| Acenaphthylene | ug/L | | | | ND | | | | | | | | |
| Acetophenone | ug/L | | | | ND | | | | | | | | |
| Anthracene | ug/L | | | | ND | | | | | | | | 4.00E+04 |
| Atrazine | ug/L | | | | ND | | | | | | | | |
| Benzaldehyde | ug/L | | | | ND | | | | | | | | |
| Benzo(a) pyrene | ug/L | | | | ND | | | | | | | | 1.80E-01 |
| Benzo(a)anthracene | ug/L | | | | ND | | | | | | | | 1.80E-01 |
| Benzo(b) fluoranthene | ug/L | | | | ND | | | | | | | | 1.80E-01 |
| Benzo(g,h,i) perylene | ug/L | | | | ND | | | | | | | | |
| Benzo(k) fluoranthene | ug/L | | | | ND | | | | | | | | 1.80E-01 |

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-008-04W | 3E-008-06W | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 04W | 06W | 06WD | 07W | 08W | 09W | 10W | 10WD | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | Acute | Chronic | Non-public water supply |
| **Semi-Volatile Constituents (continued) (Method 8270C)** | | | | | | | | | | | | | |
| Bis(2-chloroethoxy) methane | ug/L | | | | ND | | | | | | | | |
| Bis(2-chloroethyl) ether | ug/L | | | | ND | | | | | | | | |
| Bis(2-ethylhexyl) phthalate | ug/L | | | | ND | | | | | | | | 2.20E+01 |
| Butylbenzylphthalate | ug/L | | | | | | | | | | | | |
| Caprolactam | ug/L | | | | ND | | | | | | | | |
| Carbazole | ug/L | | | | | | | | | | | | |
| Chrysene | ug/L | | | | ND | | | | | | | | 1.80E-02 |
| Dibenzo(a,h) anthracene | ug/L | | | | ND | | | | | | | | 1.80E-01 |
| Dibenzofuran | ug/L | | | | ND | | | | | | | | |
| Diethylphthalate | ug/L | | | | ND | | | | | | | | |
| Dimethylphthalate | ug/L | | | | ND | | | | | | | | |
| Di-n-butylphthalate | ug/L | | | | ND | | | | | | | | |
| Di-n-octylphthalate | ug/L | | | | ND | | | | | | | | |
| Fluoranthene | ug/L | | | | ND | | | | | | | | 1.40E+02 |
| Fluorene | ug/L | | | | ND | | | | | | | | 5.30E+03 |
| Hexachlorobenzene | ug/L | | | | ND | | | | | | | | 2.90E-03 |
| Hexachlorobutadiene | ug/L | | | | ND | | | | | | | | 1.80E+02 |
| Hexachlorocyclopentadiene | ug/L | | | | ND | | | | | | | | 1.10E+03 |
| Hexachloroethane | ug/L | | | | ND | | | | | | | | |
| Indeno(1,2,3,-cd) pyrene | ug/L | | | | ND | | | | | | | | 1.80E-01 |
| Isophorone | ug/L | | | | ND | | | | | | | | 9.60E+03 |
| Naphthalene | ug/L | | | | ND | | | | | | | | |
| Nitrobenzene | ug/L | | | | ND | | | | | | | | 6.90E+02 |
| N-Nitroso-di-n propylamine | ug/L | | | | ND | | | | | | | | |
| N-Nitrosodiphenylamine | ug/L | | | | ND | | | | | | | | 160 60 |
| Pentachlorophenol | ug/L | | | | ND | | | | | | 8.70E+00 | 6.70E+00 | 3.00E+01 |
| Phenanthrene | ug/L | | | | ND | | | | | | | | |
| Phenol | ug/L | | | | ND | | | | | | | | 8.60E+05 |
| Pyrene | ug/L | | | | ND | | | | | | | | 4.00E+03 |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | |
| Arsenic | ug/L | | 140 | 70 | 87 | | | | | | 3.40E+02 | 1.50E+02 | |
| Barium | ug/L | | 970 | 510 | 190 J | | | | | | | | |
| Cadmium | ug/L | | 4.5 J | 2.4 J | 0.34 J | | | | | | 3.9 [4] | 1.1 [4] | |
| Chromium | ug/L | | 270 | 120 | 58 | | | | | | | | |
| Lead | ug/L | | 440 | 180 | 29 | | | | | | 120 [5] | 14 [5] | |
| Mercury | ug/L | | 1 | 0.35 | 0.057 J | | | | | | 1.40E+00 | 7.70E-01 | |
| Selenium | ug/L | | 13 | 8.3 | 3.7 J | | | | | | 2.00E+01 | 5.00E+00 | 4.20E+03 |
| Silver | ug/L | | ND | ND | ND | | | | | | 3.4 [6] | | |

| PRHA and Pond 14<br>Parcels: 005, 007, 008, 009, VDOT | | Boring / Groundwater Sampling Point | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-008-04W | 3E-008-06W | 3E-008-06W | 3E-009-07W | 3E-008-08W | 3E-008-09W | 3E-VDOT-10W | 3E-VDOT-10W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 04W | 06W | 06WD | 07W | 08W | 09W | 10W | 10WD | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | Acute | Chronic | Non-public water supply |
| **Pesticides and Herbicides (Method 8151)** | | | | | | | | | | | | | |
| 4,4'-DDD | ug/L | | | | ND | | | | | | | | 3.10E-03 |
| 4,4'-DDE | ug/L | | | | ND | | | | | | | | 2.20E-03 |
| 4,4'-DDT | ug/L | | | | ND | | | | | | 1.10E+00 | 1.00E-03 | 2.20E-03 |
| Aldrin | ug/L | | | | ND | | | | | | 3.00E+00 | | 5.00E-04 |
| alpha-BHC | ug/L | | | | ND | | | | | | | | |
| alpha-Chlordane | ug/L | | | | ND | | | | | | 2.40E+00 | 4.30E-03 | 8.10E-03 |
| beta-BHC | ug/L | | | | ND | | | | | | | | |
| delta-BHC | ug/L | | | | ND | | | | | | | | |
| Dieldrin | ug/L | | | | ND | | | | | | | | |
| Endosulfan I | ug/L | | | | ND | | | | | | | | |
| Endosulfan II | ug/L | | | | ND | | | | | | | | |
| Endosulfan sulfate | ug/L | | | | ND | | | | | | | | 8.90E+01 |
| Endrin | ug/L | | | | ND | | | | | | 8.60E-02 | 3.60E-02 | 6.00E-02 |
| Endrin aldehyde | ug/L | | | | ND | | | | | | | | 3.00E-01 |
| Endrin ketone | ug/L | | | | ND | | | | | | | | |
| gamma-BHC (Lindane) | ug/L | | | | ND | | | | | | | | |
| gamma-Chlordane | ug/L | | | | ND | | | | | | 2.40E+00 | 4.30E-03 | 8.10E-03 |
| Heptachlor | ug/L | | | | ND | | | | | | 5.20E-01 | 3.80E-03 | 7.90E-04 |
| Heptachlor epoxide | ug/L | | | | ND | | | | | | 5.20E-01 | 3.80E-03 | 3.90E-04 |
| Methoxychlor | ug/L | | | | ND | | | | | | | 3.00E-02 | |
| Toxaphene | ug/L | | | | ND | | | | | | 7.30E-01 | 2.00E-04 | 2.80E-03 |
| **PCBs (Method 8082)** | | | | | | | | | | | | | |
| Aroclor-1016 | ug/L | | ND | ND | ND | | | | | | | | |
| Aroclor-1221 | ug/L | | ND | ND | ND | | | | | | | | |
| Aroclor-1232 | ug/L | | ND | ND | ND | | | | | | | | |
| Aroclor-1242 | ug/L | | ND | ND | ND | | | | | | | | |
| Aroclor-1248 | ug/L | | ND | ND | ND | | | | | | | | |
| Aroclor-1254 | ug/L | | ND | ND | ND | | | | | | | | |
| Aroclor-1260 | ug/L | | ND | ND | ND | | | | | | | | |
| **Total PCBs** | ug/L | | ND | ND | ND | | | | | 50 [2] | | 0.014 | 0.00064 |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-17W | 3E-012-19W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 14W | 14WD | 17W | 19W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | ND | 4.5 J B | ND | ND | | | | |
| TPH-DRO | mg/L | 0.2 | 0.2 | 0.32 | 0.2 | | | | |
| TPH-GRO | mg/L | ND | ND | ND | ND | | | | |
| Benzene | ug/L | ND | ND | ND | ND | | | | 5.10E+02 |
| Toluene | ug/L | ND | ND | ND | ND | | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | ND | ND | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | ND | ND | ND | | | | |
| o-Xylene | ug/L | | | ND | ND | | | | |
| m&p-Xylene | ug/L | | | ND | ND | | | | |
| TOX | mg/L | 0.071 | 0.074 | | | | | | |
| Volatile Organic Constituents (Method 8260) | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | | | ND | ND | | | | |
| 1,1,2,2-Tetrachloroethane | ug/L | | | ND | ND | | | | 4.00E+01 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | | | ND | ND | | | | |
| 1,1,2-Trichloroethane | ug/L | | | ND | ND | | | | 1.60E+02 |
| 1,1-Dichloroethane | ug/L | | | ND | ND | | | | |
| 1,1-Dichloroethene | ug/L | | | ND | ND | | | | 7.10E+03 |
| 1,2,4-Trichlorobenzene | ug/L | | | 0.45 J B* | ND* | | | | 7.00E+01 |
| 1,2-Dibromo-3-chloropropane | ug/L | | | ND* | ND* | | | | |
| 1,2-Dibromoethane | ug/L | | | ND | ND* | | | | |
| 1,2-Dichlorobenzene | ug/L | | | ND | ND* | | | | 1.30E+03 |
| 1,2-Dichloroethane | ug/L | | | ND | ND* | | | | 3.70E+02 |
| 1,2-Dichloropropane | ug/L | | | ND | ND* | | | | 1.50E+02 |
| 1,3-Dichlorobenzene | ug/L | | | ND | ND* | | | | 9.60E+02 |
| 1,4-Dichlorobenzene | ug/L | | | ND | ND* | | | | 1.90E+02 |
| 2-Butanone | ug/L | | | ND | ND | | | | |
| 2-Hexanone | ug/L | | | ND | ND | | | | |
| 4-Methyl-2-pentanone | ug/L | | | ND | ND | | | | |
| Acetone | ug/L | | | ND | ND | | | | |
| Benzene | ug/L | ND | ND | ND | ND | | | | 5.10E+02 |
| Bromodichloromethane | ug/L | | | ND | ND | | | | |
| Bromoform | ug/L | | | ND | ND | | | | 1.40E+03 |
| Bromomethane | ug/L | | | ND | ND | | | | |
| Carbon disulfide | ug/L | | | ND* | ND* | | | | |
| Carbon tetrachloride | ug/L | | | ND | ND | | | | 1.60E+01 |
| Chlorobenzene | ug/L | | | ND | ND | | | | 1.60E+03 |
| Chloroethane | ug/L | | | ND* | ND* | | | | |
| Chloroform | ug/L | | | ND | ND | | | | 1.10E+04 |
| Chloromethane | ug/L | | | ND* | ND* | | | | |
| cis-1,2-Dichloroethene | ug/L | | | ND | ND | | | | |
| cis-1,3-Dichloropropene | ug/L | | | ND | ND | | | | |
| Cyclohexane | ug/L | | | ND | ND | | | | |

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-17W | 3E-012-19W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 14W | 14WD | 17W | 19W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | Acute | Chronic | Non-public water supply |
| **Volatile Organic Constituents (continued) (Method 8260)** | | | | | | | | | |
| Dibromochloromethane | ug/L | | | ND | ND | | | | |
| Dichlorodifluoromethane | ug/L | | | ND* | ND* | | | | |
| Ethylbenzene | ug/L | ND | ND | ND | ND | | | | 2.10E+03 |
| Isopropylbenzene | ug/L | | | ND | ND | | | | |
| m,p-Xylene | ug/L | | | ND | ND | | | | |
| Methyl acetate | ug/L | | | ND | ND | | | | |
| Methyl tert-butyl ether | ug/L | | | ND* | ND* | | | | |
| Methylcyclohexane | ug/L | | | ND* | ND* | | | | |
| Xylenes (Total) | ug/L | ND | ND | ND | ND | | | | |
| Methylene chloride | ug/L | | | ND* | ND* | | | | 5.90E+03 |
| o-Xylene | ug/L | | | ND | ND | | | | |
| Styrene | ug/L | | | ND | ND | | | | |
| Tetrachloroethene | ug/L | | | ND | ND | | | | 3.30E+01 |
| Toluene | ug/L | ND | ND | ND | ND | | | | 6.00E+03 |
| trans-1,2-Dichloroethene | ug/L | | | ND | ND | | | | 1.00E+04 |
| trans-1,3-Dichloropropene | ug/L | | | ND | ND | | | | |
| Trichloroethene | ug/L | | | ND | ND | | | | 3.00E+02 |
| Trichlorofluoromethane | ug/L | | | ND | ND* | | | | |
| Vinyl chloride | ug/L | | | ND | ND* | | | | 2.40E+01 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | |
| 1,1'-Biphenyl | ug/L | | | ND | ND | | | | |
| 2,4,5-Trichlorophenol | ug/L | | | ND | ND | | | | |
| 2,4,6-Trichlorophenol | ug/L | | | ND | ND | | | | 2.40E+01 |
| 2,4-Dichlorophenol | ug/L | | | ND | ND | | | | 2.90E+02 |
| 2,4-Dimethylphenol | ug/L | | | ND | ND | | | | 8.50E+02 |
| 2,4-Dinitrophenol | ug/L | | | ND | ND | | | | 5.30E+03 |
| 2,4-Dinitrotoluene | ug/L | | | ND | ND | | | | 3.40E+01 |
| 2,6-Dinitrotoluene | ug/L | | | ND | ND | | | | |
| 2-Chloronaphthalene | ug/L | | | ND | ND | | | | 1.60E+03 |
| 2-Chlorophenol | ug/L | | | ND | ND | | | | 1.50E+02 |
| 2-Methylnaphthalene | ug/L | | | ND | ND | | | | |
| 2-Methylphenol | ug/L | | | ND | ND | | | | |
| 2-Nitroaniline | ug/L | | | ND | ND | | | | |
| 2-Nitrophenol | ug/L | | | ND | ND | | | | |
| 3,3'-dicholorobenzidine | ug/L | | | ND | ND | | | | |
| 3-Nitroaniline | ug/L | | | ND | ND | | | | |
| 4,6-Dinitro-2-methylphenol | ug/L | | | ND | ND | | | | |
| 4-Bromophenyl-phenylether | ug/L | | | ND | ND | | | | |
| 4-Chloro-3-methylphenol | ug/L | | | ND | ND | | | | |
| 4-Chloroaniline | ug/L | | | ND | ND | | | | |
| 4-Chlorophenyl-phenyl ether | ug/L | | | ND | ND | | | | |
| 4 & 3-Methylphenol | ug/L | | | ND | ND | | | | |
| 4-Nitroaniline | ug/L | | | ND | ND | | | | |
| 4-Nitrophenol | ug/L | | | ND | ND | | | | |

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-17W | 3E-012-19W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 14W | 14WD | 17W | 19W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | Acute | Chronic | Non-public water supply |
| Semi-Volatile Constituents (continued) (Method 8270C) | | | | | | | | | |
| Acenaphthene | ug/L | | | ND | ND | | | | |
| Acenaphthylene | ug/L | | | ND | ND | | | | |
| Acetophenone | ug/L | | | ND | ND | | | | |
| Anthracene | ug/L | | | ND | ND | | | | 4.00E+04 |
| Atrazine | ug/L | | | ND | ND | | | | |
| Benzaldehyde | ug/L | | | ND | ND | | | | |
| Benzo(a) pyrene | ug/L | | | ND | ND | | | | 1.80E-01 |
| Benzo(a)anthracene | ug/L | | | ND | ND | | | | 1.80E-01 |
| Benzo(b) fluoranthene | ug/L | | | ND | ND | | | | 1.80E-01 |
| Benzo(g,h,i) perylene | ug/L | | | ND | ND | | | | |
| Benzo(k) fluoranthene | ug/L | | | ND | ND | | | | 1.80E-01 |
| Bis(2-chloroethoxy) methane | ug/L | | | ND | ND | | | | |
| Bis(2-chloroethyl) ether | ug/L | | | ND | ND | | | | |
| Bis(2-ethylhexyl) phthalate | ug/L | | | ND | ND | | | | 2.20E+01 |
| Butylbenzylphthalate | ug/L | | | ND | ND | | | | |
| Caprolactam | ug/L | | | ND | ND | | | | |
| Carbazole | ug/L | | | ND | ND | | | | |
| Chrysene | ug/L | | | ND | ND | | | | 1.80E-02 |
| Dibenzo(a,h) anthracene | ug/L | | | ND | ND | | | | 1.80E-01 |
| Dibenzofuran | ug/L | | | ND | ND | | | | |
| Diethylphthalate | ug/L | | | ND | ND | | | | |
| Dimethylphthalate | ug/L | | | ND | ND | | | | |
| Di-n-butylphthalate | ug/L | | | ND | ND | | | | |
| Di-n-octylphthalate | ug/L | | | ND | ND | | | | |
| Fluoranthene | ug/L | | | ND | ND | | | | 1.40E+02 |
| Fluorene | ug/L | | | ND | ND | | | | 5.30E+03 |
| Hexachlorobenzene | ug/L | | | ND | ND | | | | 2.90E-03 |
| Hexachlorobutadiene | ug/L | | | ND | ND | | | | 1.80E+02 |
| Hexachlorocyclopentadiene | ug/L | | | ND | ND | | | | 1.10E+03 |
| Hexachloroethane | ug/L | | | ND | ND | | | | |
| Indeno(1,2,3,-cd) pyrene | ug/L | | | ND | ND | | | | 1.80E-01 |
| Isophorone | ug/L | | | ND | ND | | | | 9.60E+03 |
| Naphthalene | ug/L | | | ND | ND | | | | |
| Nitrobenzene | ug/L | | | ND | ND | | | | 6.90E+02 |
| N-Nitroso-di-n propylamine | ug/L | | | ND | ND | | | | |
| N-Nitrosodiphenylamine | ug/L | | | ND | ND | | | | 160 60 |
| Pentachlorophenol | ug/L | | | ND | ND | | 8.70E+00 | 6.70E+00 | 3.00E+01 |
| Phenanthrene | ug/L | | | ND | ND | | | | |
| Phenol | ug/L | | | ND | ND | | | | 8.60E+05 |
| Pyrene | ug/L | | | ND | ND | | | | 4.00E+03 |

| Ramp SW & Mainline (Murro, CSX, & HERC) Parcels: 012, VDOT | | Boring / Groundwater Sampling Point | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-14W | 3E-VDOT-14WD | 3E-012-17W | 3E-012-19W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 14W | 14WD | 17W | 19W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | Acute | Chronic | Non-public water supply |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | |
| Arsenic | ug/L | | | 73 | **760** | | 3.40E+02 | 1.50E+02 | |
| Barium | ug/L | | | **690** | **450** | | | | |
| Cadmium | ug/L | | | ND | ND | | 3.9 [4] | 1.1 [4] | |
| Chromium | ug/L | | | **230** | **260** | | | | |
| Lead | ug/L | | | **160** | **140** | | 120 [5] | 14 [5] | |
| Mercury | ug/L | | | 0.69 | 0.41 | | 1.40E+00 | 7.70E-01 | |
| Selenium | ug/L | | | 4.3J | ND | | 2.00E+01 | 5.00E+00 | 4.20E+03 |
| Silver | ug/L | | | ND | ND | | 3.4 [6] | | |
| **PCBs (Method 8082)** | | | | | | | | | |
| Aroclor-1016 | ug/L | | | ND | ND | | | | |
| Aroclor-1221 | ug/L | | | ND | ND | | | | |
| Aroclor-1232 | ug/L | | | ND | ND | | | | |
| Aroclor-1242 | ug/L | | | ND | ND | | | | |
| Aroclor-1248 | ug/L | | | ND | ND | | | | |
| Aroclor-1254 | ug/L | | | ND | ND | | | | |
| Aroclor-1260 | ug/L | | | ND | ND | | | | |
| **Total PCBs** | ug/L | | | ND | ND | 50 [2] | | 0.014 | 0.00064 |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-015-21W | 3E-015-22W | 3E-VDOT-23W | 3E-017-24W | 3E-VDOT-25W | 3E-VDOT-26W | 3E-VDOT-68W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 21W | 22W | 23W | 24W | 25W | 26W | 68W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | 2.2 J | 2.3 J | 1.8 J | 2.2J | ND | 2.3 J | 2.0 J | | | | |
| TPH-DRO | mg/L | 0.12 | 0.48 | 0.26 | 0.22 | 0.47 | .075 J | 0.23 | | | | |
| TPH-GRO | mg/L | ND | ND | ND | ND | ND | ND | ND | | | | |
| Benzene | ug/L | ND | ND | ND | ND | ND | ND | ND | | | | 5.10E+02 |
| Toluene | ug/L | ND | ND | ND | ND | ND | ND | ND | | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | ND | ND | ND | ND | ND | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | ND | ND | ND | ND | ND | ND | | | | |
| o-Xylene | ug/L | ND | | ND | | | ND | | | | | |
| m&p-Xylene | ug/L | ND | | ND | | | ND | | | | | |
| TOX | mg/L | | 0.064 | | 0.02 | 0.087 | | 0.083 | | | | |
| Volatile Organic Constituents (Method 8260) | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | ND | | ND | | | ND | | | | | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | | ND | | | ND | | | | | 4.00E+01 |
| 1,1,2-Trichloro-1,2,2-trifluoroethar | ug/L | ND | | ND | | | ND | | | | | |
| 1,1,2-Trichloroethane | ug/L | ND | | ND | | | ND | | | | | 1.60E+02 |
| 1,1-Dichloroethane | ug/L | ND | | ND | | | ND | | | | | |
| 1,1-Dichloroethene | ug/L | ND | | ND | | | ND | | | | | 7.10E+03 |
| 1,2,4-Trichlorobenzene | ug/L | ND | | ND* | | | ND | | | | | 7.00E+01 |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | | ND | | | ND | | | | | |
| 1,2-Dibromoethane | ug/L | ND | | ND | | | ND | | | | | |
| 1,2-Dichlorobenzene | ug/L | ND | | ND | | | ND | | | | | 1.30E+03 |
| 1,2-Dichloroethane | ug/L | ND | | ND | | | ND | | | | | 3.70E+02 |
| 1,2-Dichloropropane | ug/L | ND | | ND | | | ND | | | | | 1.50E+02 |
| 1,3-Dichlorobenzene | ug/L | ND | | ND | | | ND | | | | | 9.60E+02 |
| 1,4-Dichlorobenzene | ug/L | ND | | ND | | | ND | | | | | 1.90E+02 |
| 2-Butanone | ug/L | ND | | ND | | | ND | | | | | |
| 2-Hexanone | ug/L | ND | | ND | | | ND | | | | | |
| 4-Methyl-2-pentanone | ug/L | ND | | ND | | | ND | | | | | |
| Acetone | ug/L | ND | | ND | | | ND | | | | | |
| Benzene | ug/L | ND | ND | ND | ND | ND | ND | ND | | | | 5.10E+02 |
| Bromodichloromethane | ug/L | ND | | ND | | | ND | | | | | |
| Bromoform | ug/L | ND | | ND | | | ND | | | | | 1.40E+03 |
| Bromomethane | ug/L | ND | | ND | | | ND | | | | | |
| Carbon disulfide | ug/L | ND | | ND | | | ND | | | | | |
| Carbon tetrachloride | ug/L | ND | | ND | | | ND | | | | | 1.60E+01 |
| Chlorobenzene | ug/L | ND | | ND | | | ND | | | | | 1.60E+03 |
| Chloroethane | ug/L | ND | | ND | | | ND | | | | | |
| Chloroform | ug/L | ND | | ND | | | ND | | | | | 1.10E+04 |
| Chloromethane | ug/L | ND | | ND | | | ND | | | | | |
| cis-1,2-Dichloroethene | ug/L | ND | | ND | | | ND | | | | | |
| cis-1,3-Dichloropropene | ug/L | ND | | ND | | | ND | | | | | |
| Cyclohexane | ug/L | ND | | ND | | | ND | | | | | |
| Dibromochloromethane | ug/L | ND | | ND | | | ND | | | | | |
| Dichlorodifluoromethane | ug/L | ND | | ND | | | ND | | | | | |
| Ethylbenzene | ug/L | ND | ND | ND | ND | ND | ND | ND | | | | 2.10E+03 |
| Isopropylbenzene | ug/L | ND | | ND | | | ND | | | | | |

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-015-21W | 3E-015-22W | 3E-VDOT-23W | 3E-017-24W | 3E-VDOT-25W | 3E-VDOT-26W | 3E-VDOT-68W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 21W | 22W | 23W | 24W | 25W | 26W | 68W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | Acute | Chronic | Non-public water supply |
| **Volatile Organic Constituents (continued) (Method 8260)** | | | | | | | | | | | | |
| m,p-Xylene | ug/L | ND | | ND | | | ND | | | | | |
| Methyl acetate | ug/L | ND | | ND | | | ND | | | | | |
| Methyl tert-butyl ether | ug/L | ND | | ND | | | ND | | | | | |
| Methylcyclohexane | ug/L | ND | | ND | | | ND | | | | | |
| Methylene chloride | ug/L | ND | | ND | | | ND | | | | | 5.90E+03 |
| o-Xylene | ug/L | ND | | ND | | | ND | | | | | |
| Xylenes (Total) | ug/L | ND | ND | ND | ND | ND | ND | ND | | | | |
| Styrene | ug/L | ND | | ND | | | ND | | | | | |
| Tetrachloroethene | ug/L | ND | | ND | | | ND | | | | | 3.30E+01 |
| Toluene | ug/L | ND | ND | ND | ND | ND | ND | ND | | | | 6.00E+03 |
| trans-1,2-Dichloroethene | ug/L | ND | | ND | | | ND | | | | | 1.00E+04 |
| trans-1,3-Dichloropropene | ug/L | ND | | ND | | | ND | | | | | |
| Trichloroethene | ug/L | ND | | ND | | | ND | | | | | 3.00E+02 |
| Trichlorofluoromethane | ug/L | ND* | | ND* | | | ND | | | | | |
| Vinyl chloride | ug/L | ND | | ND | | | ND | | | | | 2.40E+01 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/L | ND | | ND | | | ND | | | | | |
| 2,4,5-Trichlorophenol | ug/L | ND | | ND | | | ND | | | | | |
| 2,4,6-Trichlorophenol | ug/L | ND | | ND | | | ND | | | | | 2.40E+01 |
| 2,4-Dichlorophenol | ug/L | ND | | ND | | | ND | | | | | 2.90E+02 |
| 2,4-Dimethylphenol | ug/L | ND | | ND | | | ND | | | | | 8.50E+02 |
| 2,4-Dinitrophenol | ug/L | ND | | ND | | | ND | | | | | 5.30E+03 |
| 2,4-Dinitrotoluene | ug/L | ND | | ND | | | ND | | | | | 3.40E+01 |
| 2,6-Dinitrotoluene | ug/L | ND | | ND | | | ND | | | | | |
| 2-Chloronaphthalene | ug/L | ND | | ND | | | ND | | | | | 1.60E+03 |
| 2-Chlorophenol | ug/L | ND | | ND | | | ND | | | | | 1.50E+02 |
| 2-Methylnaphthalene | ug/L | ND | | ND | | | ND | | | | | |
| 2-Methylphenol | ug/L | ND | | ND | | | ND | | | | | |
| 2-Nitroaniline | ug/L | ND | | ND | | | ND | | | | | |
| 2-Nitrophenol | ug/L | ND | | ND | | | ND | | | | | |
| 3,3'-dicholorobenzidine | ug/L | ND | | ND | | | ND | | | | | |
| 3-Nitroaniline | ug/L | ND | | ND | | | ND | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/L | ND | | ND | | | ND | | | | | |
| 4-Bromophenyl-phenylether | ug/L | ND | | ND | | | ND | | | | | |
| 4-Chloro-3-methylphenol | ug/L | ND | | ND | | | ND | | | | | |
| 4-Chloroaniline | ug/L | ND | | ND | | | ND | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/L | ND | | ND | | | ND | | | | | |
| 4&3-Methylphenol | ug/L | ND | | ND | | | ND | | | | | |
| 4-Nitroaniline | ug/L | ND | | ND | | | ND | | | | | |
| 4-Nitrophenol | ug/L | ND | | ND | | | ND | | | | | |
| Acenaphthene | ug/L | ND | | ND | | | ND | | | | | |
| Acenaphthylene | ug/L | ND | | ND | | | ND | | | | | |
| Acetophenone | ug/L | ND | | ND | | | ND | | | | | |
| Anthracene | ug/L | ND | | ND | | | ND | | | | | 4.00E+04 |
| Atrazine | ug/L | ND | | ND | | | ND | | | | | |

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-015-21W | 3E-015-22W | 3E-VDOT-23W | 3E-017-24W | 3E-VDOT-25W | 3E-VDOT-26W | 3E-VDOT-68W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 21W | 22W | 23W | 24W | 25W | 26W | 68W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | Acute | Chronic | Non-public water supply |
| **Semi-Volatile Constituents (continued) (Method 8270C)** | | | | | | | | | | | | |
| Benzaldehyde | ug/L | ND | | ND | | | ND | | | | | |
| Benzo(a) pyrene | ug/L | ND | | ND | | | ND | | | | | 1.80E-01 |
| Benzo(a)anthracene | ug/L | ND | | ND | | | ND | | | | | 1.80E-01 |
| Benzo(b) fluoranthene | ug/L | ND | | ND | | | ND | | | | | 1.80E-01 |
| Benzo(g,h,i) perylene | ug/L | ND | | ND | | | ND | | | | | |
| Benzo(k) fluoranthene | ug/L | ND | | ND | | | ND | | | | | 1.80E-01 |
| Bis(2-chloroethoxy) methane | ug/L | ND | | ND | | | ND | | | | | |
| Bis(2-chloroethyl) ether | ug/L | ND | | ND | | | ND | | | | | |
| Bis(2-ethylhexyl) phthalate | ug/L | ND | | ND | | | ND | | | | | 2.20E+01 |
| Butylbenzylphthalate | ug/L | ND | | ND | | | ND | | | | | |
| Caprolactam | ug/L | ND | | ND | | | ND | | | | | |
| Carbazole | ug/L | ND | | ND | | | ND | | | | | |
| Chrysene | ug/L | ND | | ND | | | ND | | | | | 1.80E-02 |
| Dibenzo(a,h) anthracene | ug/L | ND | | ND | | | ND | | | | | 1.80E-01 |
| Dibenzofuran | ug/L | ND | | ND | | | ND | | | | | |
| Diethylphthalate | ug/L | ND | | ND | | | ND | | | | | |
| Dimethylphthalate | ug/L | ND | | ND | | | ND | | | | | |
| Di-n-butylphthalate | ug/L | ND | | ND | | | ND | | | | | |
| Di-n-octylphthalate | ug/L | ND | | ND | | | ND | | | | | |
| Fluoranthene | ug/L | ND | | ND | | | ND | | | | | 1.40E+02 |
| Fluorene | ug/L | ND | | ND | | | ND | | | | | 5.30E+03 |
| Hexachlorobenzene | ug/L | ND | | ND | | | ND | | | | | 2.90E-03 |
| Hexachlorobutadiene | ug/L | ND | | ND | | | ND | | | | | 1.80E+02 |
| Hexachlorocyclopentadiene | ug/L | ND | | ND | | | ND | | | | | 1.10E+03 |
| Hexachloroethane | ug/L | ND | | ND | | | ND | | | | | |
| Indeno(1,2,3,-cd) pyrene | ug/L | ND | | ND | | | ND | | | | | 1.80E-01 |
| Isophorone | ug/L | ND | | ND | | | ND | | | | | 9.60E+03 |
| Naphthalene | ug/L | ND | | ND | | | ND | | | | | |
| Nitrobenzene | ug/L | ND | | ND | | | ND | | | | | 6.90E+02 |
| N-Nitroso-di-n propylamine | ug/L | ND | | ND | | | ND | | | | | |
| N-Nitrosodiphenylamine | ug/L | ND | | ND | | | ND | | | | | 160 60 |
| Pentachlorophenol | ug/L | ND | | ND | | | ND | | | 8.70E+00 | 6.70E+00 | 3.00E+01 |
| Phenanthrene | ug/L | ND | | ND | | | ND | | | | | |
| Phenol | ug/L | ND | | ND | | | ND | | | | | 8.60E+05 |
| Pyrene | ug/L | ND | | ND | | | ND | | | | | 4.00E+03 |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | |
| Arsenic | ug/L | | | 84 | | | 6.3 J | | | 3.40E+02 | 1.50E+02 | |
| Barium | ug/L | | | 160 J | | | 34 J | | | | | |
| Cadmium | ug/L | | | 2.2 J | | | ND | | | 3.9 [4] | 1.1 [4] | |
| Chromium | ug/L | | | 88 | | | 15 | | | | | |
| Lead | ug/L | | | 42 | | | 7 | | | 120 [5] | 14 [5] | |
| Mercury | ug/L | | | 0.086 J | | | ND | | | 1.40E+00 | 7.70E-01 | |
| Selenium | ug/L | | | 5.5 | | | ND | | | 2.00E+01 | 5.00E+00 | 4.20E+03 |
| Silver | ug/L | | | ND | | | ND | | | 3.4 [6] | | |

| Ramp WN & Ponds 19 & 20<br>Parcels: 012, 015, 017, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-015-21W | 3E-015-22W | 3E-VDOT-23W | 3E-017-24W | 3E-VDOT-25W | 3E-VDOT-26W | 3E-VDOT-68W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 21W | 22W | 23W | 24W | 25W | 26W | 68W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | Acute | Chronic | Non-public water supply |
| PCBs (Method 8082) | | | | | | | | | | | | |
| Aroclor-1016 | ug/L | | | ND | | | ND | | | | | |
| Aroclor-1221 | ug/L | | | ND | | | ND | | | | | |
| Aroclor-1232 | ug/L | | | ND | | | ND | | | | | |
| Aroclor-1242 | ug/L | | | ND | | | ND | | | | | |
| Aroclor-1248 | ug/L | | | ND | | | ND | | | | | |
| Aroclor-1254 | ug/L | | | ND | | | ND | | | | | |
| Aroclor-1260 | ug/L | | | ND | | | ND | | | | | |
| **Total PCBs** | ug/L | | | ND | | | ND | | 50 [2] | | 0.014 | 0.00064 |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| CSX & Vulcan<br>Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-33W | 3E-012-35W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 28W | 29W | 31W | 31WD | 33W | 35W REFUSAL | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | 4.7 J | ND | ND | ND | ND | 23 | | | | |
| TPH-DRO | mg/L | 0.26 | 0.88 | 0.16 | 0.41 | 1.7 | 1.4 | | | | |
| TPH-GRO | mg/L | ND | ND | ND | ND | ND | 0.025 J | | | | |
| Benzene | ug/L | ND | ND | ND | ND | ND | ND | | | | 5.10E+02 |
| Toluene | ug/L | ND | ND | ND | ND | ND | ND | | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | ND | ND | ND | ND | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | ND | ND | ND | ND | ND | | | | |
| o-Xylene | ug/L | | ND | | | | ND | | | | |
| m&p-Xylene | ug/L | | ND | | | | ND | | | | |
| TOX | mg/L | 0.024 | | 0.039 | 0.047 | | 0.13 | | | | |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | | ND | | | ND | | | | | |
| 1,1,2,2-Tetrachloroethane | ug/L | | ND | | | ND | | | | | 4.00E+01 |
| 1,1,2-Trichloro-1,2,2-trifluoroethan | ug/L | | ND | | | ND | | | | | |
| 1,1,2-Trichloroethane | ug/L | | ND | | | ND | | | | | 1.60E+02 |
| 1,1-Dichloroethane | ug/L | | ND | | | ND | | | | | |
| 1,1-Dichloroethene | ug/L | | ND | | | ND | | | | | 7.10E+03 |
| 1,2,4-Trichlorobenzene | ug/L | | 0.63J B* | | | 2.6JB * | | | | | 7.00E+01 |
| 1,2-Dibromo-3-chloropropane | ug/L | | ND | | | ND* | | | | | |
| 1,2-Dibromoethane | ug/L | | ND | | | ND | | | | | |
| 1,2-Dichlorobenzene | ug/L | | ND | | | ND | | | | | 1.30E+03 |
| 1,2-Dichloroethane | ug/L | | ND | | | ND | | | | | 3.70E+02 |
| 1,2-Dichloropropane | ug/L | | ND | | | ND | | | | | 1.50E+02 |
| 1,3-Dichlorobenzene | ug/L | | ND | | | ND | | | | | 9.60E+02 |
| 1,4-Dichlorobenzene | ug/L | | ND | | | ND | | | | | 1.90E+02 |
| 2-Butanone | ug/L | | ND | | | ND | | | | | |
| 2-Hexanone | ug/L | | ND | | | ND | | | | | |
| 4-Methyl-2-pentanone | ug/L | | ND | | | ND | | | | | |
| Acetone | ug/L | | ND | | | ND | | | | | |
| Benzene | ug/L | ND | ND | ND | ND | ND | ND | | | | 5.10E+02 |
| Bromodichloromethane | ug/L | | ND | | | ND | | | | | |
| Bromoform | ug/L | | ND | | | ND | | | | | 1.40E+03 |
| Bromomethane | ug/L | | ND | | | ND | | | | | |
| Carbon disulfide | ug/L | | ND* | | | ND* | | | | | |
| Carbon tetrachloride | ug/L | | ND | | | ND | | | | | 1.60E+01 |
| Chlorobenzene | ug/L | | ND | | | ND | | | | | 1.60E+03 |
| Chloroethane | ug/L | | ND* | | | ND* | | | | | |
| Chloroform | ug/L | | ND | | | ND | | | | | 1.10E+04 |
| Chloromethane | ug/L | | ND* | | | ND* | | | | | |
| cis-1,2-Dichloroethene | ug/L | | ND | | | ND | | | | | |
| cis-1,3-Dichloropropene | ug/L | | ND | | | ND | | | | | |
| Cyclohexane | ug/L | | ND | | | ND | | | | | |

| CSX & Vulcan Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-33W | 3E-012-35W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 28W | 29W | 31W | 31WD | 33W | 35W REFUSAL | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | Acute | Chronic | Non-public water supply |
| **Volatile Organic Constituents (continued) (Method 8260)** | | | | | | | | | | | |
| Dibromochloromethane | ug/L | | ND | | | ND | | | | | |
| Dichlorodifluoromethane | ug/L | | ND* | | | ND* | | | | | |
| Ethylbenzene | ug/L | ND | ND | ND | ND | ND | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | ND | ND | ND | ND | ND | | | | |
| Isopropylbenzene | ug/L | | ND | | | ND | | | | | |
| m,p-Xylene | ug/L | | ND | | | ND | | | | | |
| Methyl acetate | ug/L | | ND | | | ND | | | | | |
| Methyl tert-butyl ether | ug/L | | ND* | | | ND* | | | | | |
| Methylcyclohexane | ug/L | | ND* | | | ND* | | | | | |
| Methylene chloride | ug/L | | ND* | | | ND* | | | | | 5.90E+03 |
| o-Xylene | ug/L | | ND | | | ND | | | | | |
| Styrene | ug/L | | ND | | | ND | | | | | |
| Tetrachloroethene | ug/L | | ND | | | ND | | | | | 3.30E+01 |
| Toluene | ug/L | ND | ND | ND | ND | ND | ND | | | | 6.00E+03 |
| trans-1,2-Dichloroethene | ug/L | | ND | | | ND | | | | | 1.00E+04 |
| trans-1,3-Dichloropropene | ug/L | | ND | | | ND | | | | | |
| Trichloroethene | ug/L | | ND | | | ND | | | | | 3.00E+02 |
| Trichlorofluoromethane | ug/L | | ND* | | | ND* | | | | | |
| Vinyl chloride | ug/L | | ND* | | | ND* | | | | | 2.40E+01 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/L | | ND | | | ND | | | | | |
| 2,4,5-Trichlorophenol | ug/L | | ND | | | ND | | | | | |
| 2,4,6-Trichlorophenol | ug/L | | ND | | | ND | | | | | 2.40E+01 |
| 2,4-Dichlorophenol | ug/L | | ND | | | ND | | | | | 2.90E+02 |
| 2,4-Dimethylphenol | ug/L | | ND | | | ND | | | | | 8.50E+02 |
| 2,4-Dinitrophenol | ug/L | | ND | | | ND | | | | | 5.30E+03 |
| 2,4-Dinitrotoluene | ug/L | | ND | | | ND | | | | | 3.40E+01 |
| 2,6-Dinitrotoluene | ug/L | | ND | | | ND | | | | | |
| 2-Chloronaphthalene | ug/L | | ND | | | ND | | | | | 1.60E+03 |
| 2-Chlorophenol | ug/L | | ND | | | ND | | | | | 1.50E+02 |
| 2-Methylnaphthalene | ug/L | | ND | | | 2.4 | | | | | |
| 2-Methylphenol | ug/L | | ND | | | ND | | | | | |
| 2-Nitroaniline | ug/L | | ND | | | ND | | | | | |
| 2-Nitrophenol | ug/L | | ND | | | ND | | | | | |
| 3,3'-dicholorobenzidine | ug/L | | ND | | | ND | | | | | |
| 3-Nitroaniline | ug/L | | ND | | | ND | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/L | | ND | | | ND | | | | | |
| 4-Bromophenyl-phenylether | ug/L | | ND | | | ND | | | | | |
| 4-Chloro-3-methylphenol | ug/L | | ND | | | ND | | | | | |
| 4-Chloroaniline | ug/L | | ND | | | ND | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/L | | ND | | | ND | | | | | |
| 4-Methylphenol | ug/L | | ND | | | ND | | | | | |
| 4-Nitroaniline | ug/L | | ND | | | ND | | | | | |
| 4-Nitrophenol | ug/L | | ND | | | ND | | | | | |

| CSX & Vulcan<br>Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-33W | 3E-012-35W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 28W | 29W | 31W | 31WD | 33W | 35W REFUSAL | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | Acute | Chronic | Non-public water supply |
| Semi-Volatile Constituents (continued) (Method 8270C) | | | | | | | | | | | |
| Acenaphthene | ug/L | | ND | | | 4.4 | | | | | |
| Acenaphthylene | ug/L | | ND | | | ND | | | | | |
| Acetophenone | ug/L | | ND | | | ND | | | | | |
| Anthracene | ug/L | | ND | | | ND | | | | | 4.00E+04 |
| Atrazine | ug/L | | ND | | | ND | | | | | |
| Benzaldehyde | ug/L | | 5J | | | ND | | | | | |
| Benzo(a) pyrene | ug/L | | ND | | | ND | | | | | 1.80E-01 |
| Benzo(a)anthracene | ug/L | | ND | | | ND | | | | | 1.80E-01 |
| Benzo(b) fluoranthene | ug/L | | ND | | | ND | | | | | 1.80E-01 |
| Benzo(g,h,i) perylene | ug/L | | ND | | | ND | | | | | |
| Benzo(k) fluoranthene | ug/L | | ND | | | ND | | | | | 1.80E-01 |
| Bis(2-chloroethoxy) methane | ug/L | | ND | | | ND | | | | | |
| Bis(2-chloroethyl) ether | ug/L | | ND | | | ND | | | | | |
| Bis(2-ethylhexyl) phthalate | ug/L | | ND | | | ND | | | | | 2.20E+01 |
| Butylbenzylphthalate | ug/L | | ND | | | ND | | | | | |
| Caprolactam | ug/L | | ND | | | ND | | | | | |
| Carbazole | ug/L | | ND | | | ND | | | | | |
| Chrysene | ug/L | | ND | | | ND | | | | | 1.80E-02 |
| Dibenzo(a,h) anthracene | ug/L | | ND | | | ND | | | | | 1.80E-01 |
| Dibenzofuran | ug/L | | ND | | | ND | | | | | |
| Diethylphthalate | ug/L | | ND | | | ND | | | | | |
| Dimethylphthalate | ug/L | | ND | | | ND | | | | | |
| Di-n-butylphthalate | ug/L | | ND | | | ND | | | | | |
| Di-n-octylphthalate | ug/L | | ND | | | ND | | | | | |
| Fluoranthene | ug/L | | ND | | | ND | | | | | 1.40E+02 |
| Fluorene | ug/L | | ND | | | 0.87 J | | | | | 5.30E+03 |
| Hexachlorobenzene | ug/L | | ND | | | ND | | | | | 2.90E-03 |
| Hexachlorobutadiene | ug/L | | ND | | | ND | | | | | 1.80E+02 |
| Hexachlorocyclopentadiene | ug/L | | ND | | | ND | | | | | 1.10E+03 |
| Hexachloroethane | ug/L | | ND | | | ND | | | | | |
| Indeno(1,2,3,-cd) pyrene | ug/L | | ND | | | ND | | | | | 1.80E-01 |
| Isophorone | ug/L | | ND | | | ND | | | | | 9.60E+03 |
| Naphthalene | ug/L | | ND | | | 2.2 | | | | | |
| Nitrobenzene | ug/L | | ND | | | ND | | | | | 6.90E+02 |
| N-Nitroso-di-n propylamine | ug/L | | ND | | | ND | | | | | |
| N-Nitrosodiphenylamine | ug/L | | ND | | | ND | | | | | 160 60 |
| Pentachlorophenol | ug/L | | ND | | | ND | | | 8.70E+00 | 6.70E+00 | 3.00E+01 |
| Phenanthrene | ug/L | | ND | | | 0.87J | | | | | |
| Phenol | ug/L | | ND | | | ND | | | | | 8.60E+05 |
| Pyrene | ug/L | | ND | | | ND | | | | | 4.00E+03 |

| CSX & Vulcan<br>Parcels:012 | | Boring / Groundwater Sampling Point | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-012-28W | 3E-012-29W | 3E-012-31W | 3E-012-31W | 3E-012-33W | 3E-012-35W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 28W | 29W | 31W | 31WD | 33W | 35W REFUSAL | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | Acute | Chronic | Non-public water supply |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | |
| Arsenic | ug/L | | 77 | | | 90 | | | 3.40E+02 | 1.50E+02 | |
| Barium | ug/L | | 230 | | | 190 J | | | | | |
| Cadmium | ug/L | | 0.37 J | | | ND | | | 3.9 [4] | 1.1 [4] | |
| Chromium | ug/L | | 120 | | | 110 | | | | | |
| Lead | ug/L | | 110 | | | 200 | | | 120 [5] | 14 [5] | |
| Mercury | ug/L | | 0.092 J | | | 0.17J | | | 1.40E+00 | 7.70E-01 | |
| Selenium | ug/L | | ND | | | ND | | | 2.00E+01 | 5.00E+00 | 4.20E+03 |
| Silver | ug/L | | ND | | | ND | | | 3.4 [6] | | |
| **PCBs (Method 8082)** | | | | | | | | | | | |
| Aroclor-1016 | ug/L | | ND | | | ND | | | | | |
| Aroclor-1221 | ug/L | | ND | | | ND | | | | | |
| Aroclor-1232 | ug/L | | ND | | | ND | | | | | |
| Aroclor-1242 | ug/L | | ND | | | ND | | | | | |
| Aroclor-1248 | ug/L | | ND | | | ND | | | | | |
| Aroclor-1254 | ug/L | | ND | | | ND | | | | | |
| Aroclor-1260 | ug/L | | ND | | | ND | | | | | |
| **Total PCBs** | ug/L | | ND | | | ND | | 50 [2] | | 0.014 | 0.00064 |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Dominion Demolition & Pond 24<br>Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-024-38W | 3E-025-40W | 3E-025-41W | 3E-029-42W | 3E-025-43W | 3E-025-43W | 3E-025-44W | 3E-025-45W | 3E-025-46W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 38W | 40W | 41W | 42W | 43W | 43WD | 44W | 45W | 46W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | 2.9 J | 2.3 J | 2.7 J | 2.2 J B | 4.2 J | 2.4 J | 2.2 J | 1.9 J | ND | | | | |
| TPH-DRO | mg/L | 0.84 | 1.3 | 1.9 | 0.43 | 2.2 | 2 | 1.2 | 0.38 | 0.84 | | | | |
| TPH-GRO | mg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | |
| Benzene | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | 5.10E+02 |
| Toluene | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | |
| o-Xylene | ug/L | | ND | ND | | | ND | ND | | | | | | |
| m&p-Xylene | ug/L | | ND | ND | | | ND | ND | | | | | | |
| TOX | mg/L | 0.081 | | | 0.031 | 0.11 | 0.12 | | 0.019 | 0.029 | | | | |
| **Volatile Organic Constituents (Method 8260)** | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | | ND | ND | | | | ND | | | | | | |
| 1,1,2,2-Tetrachloroethane | ug/L | | ND | ND | | | | ND | | | | | | 4.00E+01 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | | ND | ND | | | | ND | | | | | | |
| 1,1,2-Trichloroethane | ug/L | | ND | ND | | | | ND | | | | | | 1.60E+02 |
| 1,1-Dichloroethane | ug/L | | ND | ND | | | | ND | | | | | | |
| 1,1-Dichloroethene | ug/L | | ND | ND | | | | ND | | | | | | 7.10E+03 |
| 1,2,4-Trichlorobenzene | ug/L | | ND* | ND | | | | ND | | | | | | 7.00E+01 |
| 1,2-Dibromo-3-chloropropane | ug/L | | ND | ND | | | | ND | | | | | | |
| 1,2-Dibromoethane | ug/L | | ND | ND | | | | ND | | | | | | |
| 1,2-Dichlorobenzene | ug/L | | ND | ND | | | | ND | | | | | | 1.30E+03 |
| 1,2-Dichloroethane | ug/L | | ND | ND | | | | ND | | | | | | 3.70E+02 |
| 1,2-Dichloropropane | ug/L | | ND | ND | | | | ND | | | | | | 1.50E+02 |
| 1,3-Dichlorobenzene | ug/L | | ND | ND | | | | ND | | | | | | 9.60E+02 |
| 1,4-Dichlorobenzene | ug/L | | ND | ND | | | | ND | | | | | | 1.90E+02 |
| 2-Butanone | ug/L | | ND | ND | | | | ND | | | | | | |
| 2-Hexanone | ug/L | | ND* | ND* | | | | ND* | | | | | | |
| 4-Methyl-2-pentanone | ug/L | | ND | ND | | | | ND | | | | | | |
| Acetone | ug/L | | ND* | ND* | | | | ND* | | | | | | |
| Benzene | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | 5.10E+02 |
| Bromodichloromethane | ug/L | | ND | ND | | | | ND | | | | | | |
| Bromoform | ug/L | | ND | ND | | | | ND | | | | | | 1.40E+03 |
| Bromomethane | ug/L | | ND | ND | | | | ND | | | | | | |
| Carbon disulfide | ug/L | | ND | ND | | | | ND | | | | | | |
| Carbon tetrachloride | ug/L | | ND | ND | | | | ND | | | | | | 1.60E+01 |
| Chlorobenzene | ug/L | | ND | ND | | | | ND | | | | | | 1.60E+03 |
| Chloroethane | ug/L | | ND | ND | | | | ND | | | | | | |
| Chloroform | ug/L | | ND | ND | | | | ND | | | | | | 1.10E+04 |
| Chloromethane | ug/L | | ND | ND | | | | ND | | | | | | |
| cis-1,2-Dichloroethene | ug/L | | ND | ND | | | | ND | | | | | | |
| cis-1,3-Dichloropropene | ug/L | | ND | ND | | | | ND | | | | | | |
| Cyclohexane | ug/L | | ND | ND | | | | ND | | | | | | |
| Dibromochloromethane | ug/L | | ND | ND | | | | ND | | | | | | |
| Dichlorodifluoromethane | ug/L | | ND | ND | | | | ND | | | | | | |
| Ethylbenzene | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | 2.10E+03 |
| Isopropylbenzene | ug/L | | ND | ND | | | | ND | | | | | | |
| Xylenes (Total) | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | |
| m,p-Xylene | ug/L | | ND | ND | | | | ND | | | | | | |
| Methyl acetate | ug/L | | ND | ND | | | | ND | | | | | | |
| Methyl tert-butyl ether | ug/L | | 3.6 J | 17 | | | | ND | | | | | | |
| Methylcyclohexane | ug/L | | ND | ND | | | | ND | | | | | | |
| Methylene chloride | ug/L | | ND | ND | | | | ND | | | | | | 5.90E+03 |
| o-Xylene | ug/L | | ND | ND | | | | ND | | | | | | |
| Styrene | ug/L | | ND | ND | | | | ND | | | | | | |

| Dominion Demolition & Pond 24<br>Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-024-38W | 3E-025-40W | 3E-025-41W | 3E-029-42W | 3E-025-43W | 3E-025-43W | 3E-025-44W | 3E-025-45W | 3E-025-46W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 38W | 40W | 41W | 42W | 43W | 43WD | 44W | 45W | 46W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | | Acute | Chronic | Non-public water supply |
| **Volatile Organic Constituents (continued) (Method 8260)** | | | | | | | | | | | | | | |
| Tetrachloroethene | ug/L | | ND | ND | | | | ND | | | | | | 3.30E+01 |
| Toluene | ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | 6.00E+03 |
| trans-1,2-Dichloroethene | ug/L | | ND | ND | | | | ND | | | | | | 1.00E+04 |
| trans-1,3-Dichloropropene | ug/L | | ND | ND | | | | ND | | | | | | |
| Trichloroethene | ug/L | | ND | ND | | | | ND | | | | | | 3.00E+02 |
| Trichlorofluoromethane | ug/L | | ND | ND | | | | ND | | | | | | |
| Vinyl chloride | ug/L | | ND | ND | | | | ND | | | | | | 2.40E+01 |
| **Semi-Volatile Constituents (Method 8270C)** | | | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/L | | ND | ND | | | | ND | | | | | | |
| 2,4,5-Trichlorophenol | ug/L | | ND | ND | | | | ND | | | | | | |
| 2,4,6-Trichlorophenol | ug/L | | ND | ND | | | | ND | | | | | | 2.40E+01 |
| 2,4-Dichlorophenol | ug/L | | ND | ND | | | | ND | | | | | | 2.90E+02 |
| 2,4-Dimethylphenol | ug/L | | ND | ND | | | | ND | | | | | | 8.50E+02 |
| 2,4-Dinitrophenol | ug/L | | ND | ND | | | | ND | | | | | | 5.30E+03 |
| 2,4-Dinitrotoluene | ug/L | | ND | ND | | | | ND | | | | | | 3.40E+01 |
| 2,6-Dinitrotoluene | ug/L | | ND | ND | | | | ND | | | | | | |
| 2-Chloronaphthalene | ug/L | | ND | ND | | | | ND | | | | | | 1.60E+03 |
| 2-Chlorophenol | ug/L | | ND | ND | | | | ND | | | | | | 1.50E+02 |
| 2-Methylnaphthalene | ug/L | | ND | ND | | | | ND | | | | | | |
| 2-Methylphenol | ug/L | | ND | ND | | | | ND | | | | | | |
| 2-Nitroaniline | ug/L | | ND | ND | | | | ND | | | | | | |
| 2-Nitrophenol | ug/L | | ND | ND | | | | ND | | | | | | |
| 3,3'-dicholorobenzidine | ug/L | | ND | ND | | | | ND | | | | | | |
| 3-Nitroaniline | ug/L | | ND | ND | | | | ND | | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/L | | ND | ND | | | | ND | | | | | | |
| 4-Bromophenyl-phenylether | ug/L | | ND | ND | | | | ND | | | | | | |
| 4-Chloro-3-methylphenol | ug/L | | ND | ND | | | | ND | | | | | | |
| 4-Chloroaniline | ug/L | | ND | ND | | | | ND | | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/L | | ND | ND | | | | ND | | | | | | |
| 4 and 3-Methylphenol | ug/L | | ND | ND | | | | ND | | | | | | |
| 4-Nitroaniline | ug/L | | ND | ND | | | | ND | | | | | | |
| 4-Nitrophenol | ug/L | | ND | ND | | | | ND | | | | | | |
| Acenaphthene | ug/L | | ND | ND | | | | 19 | | | | | | |
| Acenaphthylene | ug/L | | ND | ND | | | | ND | | | | | | |
| Acetophenone | ug/L | | ND | ND | | | | ND | | | | | | |
| Anthracene | ug/L | | ND | ND | | | | 0.26 J | | | | | | 4.00E+04 |
| Atrazine | ug/L | | ND | ND | | | | ND | | | | | | |
| Benzaldehyde | ug/L | | ND | ND | | | | ND | | | | | | |
| Benzo(a) pyrene | ug/L | | ND | ND | | | | ND | | | | | | 1.80E-01 |
| Benzo(a)anthracene | ug/L | | ND | ND | | | | ND | | | | | | 1.80E-01 |
| Benzo(b) fluoranthene | ug/L | | ND | ND | | | | ND | | | | | | 1.80E-01 |
| Benzo(g,h,i) perylene | ug/L | | ND | ND | | | | ND | | | | | | |
| Benzo(k) fluoranthene | ug/L | | ND | ND | | | | ND | | | | | | 1.80E-01 |
| Bis(2-chloroethoxy) methane | ug/L | | ND | ND | | | | ND | | | | | | |
| Bis(2-chloroethyl) ether | ug/L | | ND | ND | | | | ND | | | | | | |
| Bis(2-ethylhexyl) phthalate | ug/L | | ND | ND | | | | ND | | | | | | 2.20E+01 |
| Butylbenzylphthalate | ug/L | | ND | ND | | | | ND | | | | | | |
| Caprolactam | ug/L | | ND | ND | | | | ND | | | | | | |
| Carbazole | ug/L | | ND | ND | | | | ND | | | | | | |
| Chrysene | ug/L | | ND | ND | | | | ND | | | | | | 1.80E-02 |

| Dominion Demolition & Pond 24<br>Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-024-38W | 3E-025-40W | 3E-025-41W | 3E-029-42W | 3E-025-43W | 3E-025-43W | 3E-025-44W | 3E-025-45W | 3E-025-46W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 38W | 40W | 41W | 42W | 43W | 43WD | 44W | 45W | 46W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | | Acute | Chronic | Non-public water supply |
| **Semi-Volatile Constituents (continued) (Method 8270C)** | | | | | | | | | | | | | | |
| Dibenzo(a,h) anthracene | ug/L | | ND | ND | | | | ND | | | | | | 1.80E-01 |
| Dibenzofuran | ug/L | | ND | ND | | | | ND | | | | | | |
| Diethylphthalate | ug/L | | ND | ND | | | | ND | | | | | | |
| Dimethylphthalate | ug/L | | ND | ND | | | | ND | | | | | | |
| Di-n-butylphthalate | ug/L | | ND | ND | | | | ND | | | | | | |
| Di-n-octylphthalate | ug/L | | ND | ND | | | | ND | | | | | | |
| Fluoranthene | ug/L | | ND | ND | | | | 0.3 J | | | | | | 1.40E+02 |
| Fluorene | ug/L | | ND | ND | | | | 0.29 J | | | | | | 5.30E+03 |
| Hexachlorobenzene | ug/L | | ND | ND | | | | ND | | | | | | 2.90E-03 |
| Hexachlorobutadiene | ug/L | | ND | ND | | | | ND | | | | | | 1.80E+02 |
| Hexachlorocyclopentadiene | ug/L | | ND | ND | | | | ND | | | | | | 1.10E+03 |
| Hexachloroethane | ug/L | | ND | ND | | | | ND | | | | | | |
| Indeno(1,2,3,-cd) pyrene | ug/L | | ND | ND | | | | ND | | | | | | 1.80E-01 |
| Isophorone | ug/L | | ND | ND | | | | ND | | | | | | 9.60E+03 |
| Naphthalene | ug/L | | ND | ND | | | | ND | | | | | | |
| Nitrobenzene | ug/L | | ND | ND | | | | ND | | | | | | 6.90E+02 |
| N-Nitroso-di-n propylamine | ug/L | | ND | ND | | | | ND | | | | | | |
| N-Nitrosodiphenylamine | ug/L | | ND | ND | | | | ND | | | | | | 160 60 |
| Pentachlorophenol | ug/L | | ND | ND | | | | ND | | | | 8.70E+00 | 6.70E+00 | 3.00E+01 |
| Phenanthrene | ug/L | | ND | ND | | | | ND | | | | | | |
| Phenol | ug/L | | ND | ND | | | | ND | | | | | | 8.60E+05 |
| Pyrene | ug/L | | ND | ND | | | | ND | | | | | | 4.00E+03 |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | |
| Arsenic | ug/L | | 94 | 11 | | | | 38 | | | | 3.40E+02 | 1.50E+02 | |
| Barium | ug/L | | 380B | 110 J B | | | | 150 J B | | | | | | |
| Cadmium | ug/L | | 4.1 J | 0.94 J | | | | 1.8 J | | | | 3.9 [4] | 1.1 [4] | |
| Chromium | ug/L | | 210 | 14 | | | | 1.1 J | | | | | | |
| Lead | ug/L | | 65 | 2.7 J | | | | ND | | | | 120 [5] | 14 [5] | |
| Mercury | ug/L | | 0.18 J | ND | | | | ND | | | | 1.40E+00 | 7.70E-01 | |
| Selenium | ug/L | | 4.4 J | ND | | | | ND | | | | 2.00E+01 | 5.00E+00 | 4.20E+03 |
| Silver | ug/L | | ND | ND | | | | ND | | | | 3.4 [6] | | |
| **PCBs (Method 8082)** | | | | | | | | | | | | | | |
| Aroclor-1016 | ug/L | | ND | ND | | | | ND | | | | | | |
| Aroclor-1221 | ug/L | | ND | ND | | | | ND | | | | | | |
| Aroclor-1232 | ug/L | | ND | ND | | | | ND | | | | | | |
| Aroclor-1242 | ug/L | | ND | ND | | | | ND | | | | | | |
| Aroclor-1248 | ug/L | | ND | ND | | | | ND | | | | | | |
| Aroclor-1254 | ug/L | | ND | ND | | | | ND | | | | | | |
| Aroclor-1260 | ug/L | | ND | ND | | | | ND | | | | | | |
| **Total PCBs** | ug/L | | ND | ND | | | | ND | | | 50 [2] | | 0.014 | 0.00064 |

| Dominion Demolition & Pond 24<br>Parcels: 024, 025, 029*, 038, & 039 | | Boring / Groundwater Sampling Point | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-024-38W | 3E-025-40W | 3E-025-41W | 3E-029-42W | 3E-025-43W | 3E-025-43W | 3E-025-44W | 3E-025-45W | 3E-025-46W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 38W | 40W | 41W | 42W | 43W | 43WD | 44W | 45W | 46W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | | Acute | Chronic | Non-public water supply |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| Pond 25<br>Parcels: 031, 032, 034, 051, 052, 053, 054, 055, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-031-47W | 3E-032-48W | 3E-034-49W | 3E-034-49W | 3E-034-50W | 3E-VDOT-51W | 3E-031-52W | 3E-033-53W | 3E-VDOT-54W | 3E-VDOT-55W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 47W | 48W | 49W | 49WD | 50W | 51W | 52W | 53W | 54W | 55W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | ND | 1.8 J B | 1.8 J B | 2.0 J B | 2.3 J B | 1.9 J B | ND | 1.8 J B | ND | ND | | | | |
| TPH-DRO | mg/L | 0.15 | 0.65 | 1.4 | 1.1 | 0.31 | 1.4 | 0.24 | 0.33 | 0.33 | 0.29 | | | | |
| TPH-GRO | mg/L | ND | 0.029 J | 0.3 | 0.36 | 0.058 | 0.13 | ND | 0.012 J | 0.011J | ND | | | | |
| Benzene | ug/L | ND | ND | 2.5 | 2.6 | 3.6 | 26 | .29 J | ND | 5.2 | ND | | | | 5.10E+02 |
| Toluene | ug/L | ND | ND | ND | ND | ND | 0.23 J | ND | ND | ND | ND | | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | ND | 1.4 | 1.7 | ND | ND | ND | ND | ND | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | ND | 1.2 J | 1.3 J | ND | ND | ND | ND | ND | ND | | | | |
| TOX | mg/L | 0.027 | 0.054 | 0.032 | 0.019 | 0.043 | | | 0.02 | 0.039 | 0.037 | | | | |
| Volatile Organic Constituents (Method 8260) | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | | | | | | ND | ND | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ug/L | | | | | | ND | ND* | | | | | | | 4.00E+01 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ug/L | | | | | | ND | ND | | | | | | | |
| 1,1,2-Trichloroethane | ug/L | | | | | | ND | ND | | | | | | | 1.60E+02 |
| 1,1-Dichloroethane | ug/L | | | | | | ND | ND | | | | | | | |
| 1,1-Dichloroethene | ug/L | | | | | | ND | ND | | | | | | | 7.10E+03 |
| 1,2,4-Trichlorobenzene | ug/L | | | | | | ND | ND* | | | | | | | 7.00E+01 |
| 1,2-Dibromo-3-chloropropane | ug/L | | | | | | ND | ND | | | | | | | |
| 1,2-Dibromoethane | ug/L | | | | | | ND | ND | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | | | | | | ND | ND | | | | | | | 1.30E+03 |
| 1,2-Dichloroethane | ug/L | | | | | | ND | ND | | | | | | | 3.70E+02 |
| 1,2-Dichloropropane | ug/L | | | | | | ND | ND | | | | | | | 1.50E+02 |
| 1,3-Dichlorobenzene | ug/L | | | | | | ND | ND | | | | | | | 9.60E+02 |
| 1,4-Dichlorobenzene | ug/L | | | | | | ND | ND | | | | | | | 1.90E+02 |
| 2-Butanone | ug/L | | | | | | ND | ND | | | | | | | |
| 2-Hexanone | ug/L | | | | | | ND | ND | | | | | | | |
| 4-Methyl-2-pentanone | ug/L | | | | | | ND | ND | | | | | | | |
| Acetone | ug/L | | | | | | 4.6 J | ND | | | | | | | |
| Benzene | ug/L | ND | ND | 2.5 | 2.6 | 3.6 | 26 | 0.29 J | ND | 5.2 | ND | | | | 5.10E+02 |
| Bromodichloromethane | ug/L | | | | | | ND | ND | | | | | | | |
| Bromoform | ug/L | | | | | | ND | ND | | | | | | | 1.40E+03 |
| Bromomethane | ug/L | | | | | | ND | ND | | | | | | | |
| Carbon disulfide | ug/L | | | | | | ND | ND | | | | | | | |
| Carbon tetrachloride | ug/L | | | | | | ND | ND | | | | | | | 1.60E+01 |
| Chlorobenzene | ug/L | | | | | | ND | ND | | | | | | | 1.60E+03 |
| Chloroethane | ug/L | | | | | | ND | ND | | | | | | | |
| Chloroform | ug/L | | | | | | ND | ND | | | | | | | 1.10E+04 |
| Chloromethane | ug/L | | | | | | ND | ND | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | | | | | | 0.27 J | ND | | | | | | | |
| cis-1,3-Dichloropropene | ug/L | | | | | | ND | ND | | | | | | | |
| Cyclohexane | ug/L | | | | | | 0.99 J | ND | | | | | | | |
| Dibromochloromethane | ug/L | | | | | | ND | ND | | | | | | | |
| Dichlorodifluoromethane | ug/L | | | | | | ND | ND | | | | | | | |
| Ethylbenzene | ug/L | ND | ND | 1.4 | 1.7 | ND | ND | ND | ND | ND | ND | | | | 2.10E+03 |
| Isopropylbenzene | ug/L | | | | | | 1.4 | ND | | | | | | | |
| Xylenes (Total) | ug/L | ND | ND | 1.2 J | 1.3 J | ND | ND | ND | ND | ND | ND | | | | |
| m,p-Xylene | ug/L | | | | | | ND | ND | | | | | | | |
| Methyl acetate | ug/L | | | | | | ND | ND | | | | | | | |
| Methyl tert-butyl ether | ug/L | | | | | | 38 | 12 | | | | | | | |
| Methylcyclohexane | ug/L | | | | | | 4.3 | ND | | | | | | | |
| Methylene chloride | ug/L | | | | | | ND | ND | | | | | | | 5.90E+03 |
| o-Xylene | ug/L | | | | | | ND | ND | | | | | | | |
| Styrene | ug/L | | | | | | ND | ND | | | | | | | |
| Tetrachloroethene | ug/L | | | | | | ND | 0.17 J | | | | | | | 3.30E+01 |
| Toluene | ug/L | ND | ND | ND | ND | ND | 0.23 J | ND | ND | ND | ND | | | | 6.00E+03 |
| trans-1,2-Dichloroethene | ug/L | | | | | | ND | ND | | | | | | | 1.00E+04 |
| trans-1,3-Dichloropropene | ug/L | | | | | | ND | ND | | | | | | | |
| Trichloroethene | ug/L | | | | | | 0.22 J | ND | | | | | | | 3.00E+02 |
| Trichlorofluoromethane | ug/L | | | | | | ND | ND | | | | | | | |
| Vinyl chloride | ug/L | | | | | | ND | ND | | | | | | | 2.40E+01 |

| Pond 25<br>Parcels: 031, 032, 034, 051, 052, 053, 054, 055, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-031-47W | 3E-032-48W | 3E-034-49W | 3E-034-49W | 3E-034-50W | 3E-VDOT-51W | 3E-031-52W | 3E-033-53W | 3E-VDOT-54W | 3E-VDOT-55W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 47W | 48W | 49W | 49WD | 50W | 51W | 52W | 53W | 54W | 55W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | | | Acute | Chronic | Non-public water supply |
| Semi-Volatile Constituents (Method 8270C) | | | | | | | | | | | | | | | |
| 1,1'-Biphenyl | ug/L | | | | | | ND | ND | | | | | | | |
| 2,4,5-Trichlorophenol | ug/L | | | | | | ND | ND | | | | | | | |
| 2,4,6-Trichlorophenol | ug/L | | | | | | ND | ND | | | | | | | 2.40E+01 |
| 2,4-Dichlorophenol | ug/L | | | | | | ND | ND | | | | | | | 2.90E+02 |
| 2,4-Dimethylphenol | ug/L | | | | | | ND | ND | | | | | | | 8.50E+02 |
| 2,4-Dinitrophenol | ug/L | | | | | | ND | ND | | | | | | | 5.30E+03 |
| 2,4-Dinitrotoluene | ug/L | | | | | | ND | ND | | | | | | | 3.40E+01 |
| 2,6-Dinitrotoluene | ug/L | | | | | | ND | ND | | | | | | | |
| 2-Chloronaphthalene | ug/L | | | | | | ND | ND | | | | | | | 1.60E+03 |
| 2-Chlorophenol | ug/L | | | | | | ND | ND | | | | | | | 1.50E+02 |
| 2-Methylnaphthalene | ug/L | | | | | | 1.0 J | ND | | | | | | | |
| 2-Methylphenol | ug/L | | | | | | ND | ND | | | | | | | |
| 2-Nitroaniline | ug/L | | | | | | ND | ND | | | | | | | |
| 2-Nitrophenol | ug/L | | | | | | ND | ND | | | | | | | |
| 3,3'-dicholorobenzidine | ug/L | | | | | | ND | ND | | | | | | | |
| 3-Nitroaniline | ug/L | | | | | | ND | ND | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ug/L | | | | | | ND | ND | | | | | | | |
| 4-Bromophenyl-phenylether | ug/L | | | | | | ND | ND | | | | | | | |
| 4-Chloro-3-methylphenol | ug/L | | | | | | ND | ND | | | | | | | |
| 4-Chloroaniline | ug/L | | | | | | ND | ND | | | | | | | |
| 4-Chlorophenyl-phenyl ether | ug/L | | | | | | ND | ND | | | | | | | |
| 4&3-Methylphenol | ug/L | | | | | | ND | ND | | | | | | | |
| 4-Nitroaniline | ug/L | | | | | | ND | ND | | | | | | | |
| 4-Nitrophenol | ug/L | | | | | | ND | ND | | | | | | | |
| Acenaphthene | ug/L | | | | | | 1.6 J | ND | | | | | | | |
| Acenaphthylene | ug/L | | | | | | ND | ND | | | | | | | |
| Acetophenone | ug/L | | | | | | ND | ND | | | | | | | |
| Anthracene | ug/L | | | | | | ND | ND | | | | | | | 4.00E+04 |
| Atrazine | ug/L | | | | | | ND | ND | | | | | | | |
| Benzaldehyde | ug/L | | | | | | ND | ND | | | | | | | |
| Benzo(a) pyrene | ug/L | | | | | | ND | 0.33 J | | | | | | | 1.80E-01 |
| Benzo(a)anthracene | ug/L | | | | | | ND | 0.59 J | | | | | | | 1.80E-01 |
| Benzo(b) fluoranthene | ug/L | | | | | | ND | 0.59 J | | | | | | | 1.80E-01 |
| Benzo(g,h,i) perylene | ug/L | | | | | | ND | 0.61 J | | | | | | | |
| Benzo(k) fluoranthene | ug/L | | | | | | ND | 0.64 J | | | | | | | 1.80E-01 |
| Bis(2-chloroethoxy) methane | ug/L | | | | | | ND | ND | | | | | | | |
| Bis(2-chloroethyl) ether | ug/L | | | | | | ND | ND | | | | | | | |
| Bis(2-ethylhexyl) phthalate | ug/L | | | | | | ND | ND | | | | | | | 2.20E+01 |
| Butylbenzylphthalate | ug/L | | | | | | ND | ND | | | | | | | |
| Caprolactam | ug/L | | | | | | ND | ND | | | | | | | |
| Carbazole | ug/L | | | | | | ND | ND | | | | | | | |
| Chrysene | ug/L | | | | | | ND | 0.68 J | | | | | | | 1.80E-02 |
| Dibenzo(a,h) anthracene | ug/L | | | | | | ND | 0.66 J | | | | | | | 1.80E-01 |
| Dibenzofuran | ug/L | | | | | | 0.62 J | ND | | | | | | | |
| Diethylphthalate | ug/L | | | | | | ND | ND | | | | | | | |
| Dimethylphthalate | ug/L | | | | | | ND | ND | | | | | | | |
| Di-n-butylphthalate | ug/L | | | | | | ND | ND | | | | | | | |
| Di-n-octylphthalate | ug/L | | | | | | ND | ND | | | | | | | |

| Pond 25<br>Parcels: 031, 032, 034, 051, 052, 053, 054, 055, & VDOT | | Boring / Groundwater Sampling Point | | | | | | | | | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-031-47W | 3E-032-48W | 3E-034-49W | 3E-034-49W | 3E-034-50W | 3E-VDOT-51W | 3E-031-52W | 3E-033-53W | 3E-VDOT-54W | 3E-VDOT-55W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 47W | 48W | 49W | 49WD | 50W | 51W | 52W | 53W | 54W | 55W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | | | | | | | | | Acute | Chronic | Non-public water supply |
| **Semi-Volatile Constituents (continued) (Method 8270C)** | | | | | | | | | | | | | | | |
| Fluoranthene | ug/L | | | | | | ND | ND | | | | | | | 1.40E+02 |
| Fluorene | ug/L | | | | | | .58 J | ND | | | | | | | 5.30E+03 |
| Hexachlorobenzene | ug/L | | | | | | ND | ND | | | | | | | 2.90E-03 |
| Hexachlorobutadiene | ug/L | | | | | | ND | ND | | | | | | | 1.80E+02 |
| Hexachlorocyclopentadiene | ug/L | | | | | | ND | ND | | | | | | | 1.10E+03 |
| Hexachloroethane | ug/L | | | | | | ND | ND | | | | | | | |
| Indeno(1,2,3,-cd) pyrene | ug/L | | | | | | ND | 0.57 J | | | | | | | 1.80E-01 |
| Isophorone | ug/L | | | | | | ND | ND | | | | | | | 9.60E+03 |
| Naphthalene | ug/L | | | | | | ND | ND | | | | | | | |
| Nitrobenzene | ug/L | | | | | | ND | ND | | | | | | | 6.90E+02 |
| N-Nitroso-di-n propylamine | ug/L | | | | | | ND | ND | | | | | | | |
| N-Nitrosodiphenylamine | ug/L | | | | | | ND | ND | | | | | | | 160 60 |
| Pentachlorophenol | ug/L | | | | | | ND | ND | | | | | 8.70E+00 | 6.70E+00 | 3.00E+01 |
| Phenanthrene | ug/L | | | | | | ND | ND | | | | | | | |
| Phenol | ug/L | | | | | | ND | ND | | | | | | | 8.60E+05 |
| Pyrene | ug/L | | | | | | ND | ND | | | | | | | 4.00E+03 |
| **RCRA Metals (Method 6010 for Metals, and 7470/7471 for Mercury)** | | | | | | | | | | | | | | | |
| Arsenic | ug/L | | | | | | 59 | ND | | | | | 3.40E+02 | 1.50E+02 | |
| Barium | ug/L | | | | | | 100 J | 32J | | | | | | | |
| Cadmium | ug/L | | | | | | 0.45 J | 0.58 J | | | | | 3.9 [4] | 1.1 [4] | |
| Chromium | ug/L | | | | | | 2.7 J | 1.6 J | | | | | | | |
| Lead | ug/L | | | | | | ND | 1.9 J | | | | | 120 [5] | 14 [5] | |
| Mercury | ug/L | | | | | | ND | ND | | | | | 1.40E+00 | 7.70E-01 | |
| Selenium | ug/L | | | | | | ND | ND | | | | | 2.00E+01 | 5.00E+00 | 4.20E+03 |
| Silver | ug/L | | | | | | 0.73 J | ND | | | | | 3.4 [6] | | |
| **PCBs (Method 8082)** | | | | | | | | | | | | | | | |
| Aroclor-1016 | ug/L | | | | | | ND | ND | | | | | | | |
| Aroclor-1221 | ug/L | | | | | | ND | ND | | | | | | | |
| Aroclor-1232 | ug/L | | | | | | ND | ND | | | | | | | |
| Aroclor-1242 | ug/L | | | | | | ND | ND | | | | | | | |
| Aroclor-1248 | ug/L | | | | | | ND | ND | | | | | | | |
| Aroclor-1254 | ug/L | | | | | | ND | ND | | | | | | | |
| Aroclor-1260 | ug/L | | | | | | ND | ND | | | | | | | |
| Total PCBs | ug/L | | | | | | ND | ND | | | | 50 [2] | | 0.014 | 0.00064 |

**NOTES:**

Analysis not performed on sample

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.

H - Sample was prepped or analyzed beyond the specified holding time.

| County St. to London Blvd. Parcels: 056 to 067, & VDOT | | Boring / Groundwater Sampling Point | | Regulatory Standards | | | |
|---|---|---|---|---|---|---|---|
| Boring ID: | | 3E-VDOT-66W | 3E-VDOT-67W | Other Regulatory Criteria (mg/L) | Virginia Water Quality Standards (µg/l) | | |
| Sample ID: | | 66W | 67W | | Aquatic Life-Freshwater | | Human Health |
| Analytical Constituent | Units | Results | | | Acute | Chronic | Non-public water supply |
| Oil and Grease | mg/L | ND | 2 J | | | | |
| TPH-DRO | mg/L | 0.1 | 0.15 | | | | |
| TPH-GRO | mg/L | ND | ND | | | | |
| Benzene | ug/L | ND | ND | | | | 5.10E+02 |
| Toluene | ug/L | ND | ND | | | | 6.00E+03 |
| Ethylbenzene | ug/L | ND | ND | | | | 2.10E+03 |
| Xylenes (Total) | ug/L | ND | ND | | | | |
| TOX | mg/L | 0.043 | 0.034 | | | | |

**NOTES:**

ND - Not Detected Above the Laboratory's Method Detection Limit

[2] VSWMR 9 VAC 20-81-140.B.4.(d))

[3] Secondary Standard

[4] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed for use in the equation shall be 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[5] Freshwater values are a function of total hardness as calcium carbonate and the water effect ratio. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when the actual ambient hardness is less than 25 or greater than 400.

[6] Freshwater values are a function of total hardness as calcium carbonate and the WER. The minimum hardness allowed shall be below 25 and the maximum hardness shall be 400 even when he actual ambient hardness is less than 25 or greater than 400.

Data Qualifiers:

J - Result is less than the Reporting Limit (RL) but greater than or equal to the Method Detection Limit (MDL) and the concentration is an approximate value.

B - Compound was found in the blank and sample.
H - Sample was prepped or analyzed beyond the specified holding time.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13241-1
Client Project/Site: Midtown Tunnel (MTT-MLK)
Revision: 1

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

*Authorized for release by:*
*9/27/2012 2:12:07 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 5
Certification Summary . . . . . 6
Sample Summary . . . . . 9
Method Summary . . . . . 10
Client Sample Results . . . . . 11
QC Sample Results . . . . . 39
QC Association . . . . . 72
Chain of Custody . . . . . 82
Receipt Checklists . . . . . 84

## Job ID: 180-13241-1

### Laboratory: TestAmerica Pittsburgh

**Narrative**

**Job Narrative**
**180-13241-1**

**Receipt**
The samples were received on 8/8/2012 @ 9:00 AM; the samples arrived in good condition, properly preserved and, on ice. The temperatures of the 5 coolers at receipt time were 2.4º C, 2.7º C, 3.0º C, 5.8º C and 5.9º C.

Except:

Containers for some samples were received broken:
8 oz soil jar broken for sample 22W#2-4'.

1 liter amber unpreserve broken for samples 22W 2 and 26W 1.

32 oz clear sulfuric preserved broken for sample 23W 1; however it was replaced with a preserved 1 liter amber.

For samples, 22W and 24W, TOX was needed; therefore, the samples were split off into 250mL amber sulfuric.

**GC/MS VOA**
Method 8260B: The laboratory control sample (LCS) for batch 45108 exceeded control limits for the following analytes: 1,2,4-Trichlorobenzene and Trichlorofluoromethane. LCS passed all control analytes.

**GC/MS Semi VOA**
No analytical or quality issues were noted.

**GC VOA**
Method 8015B: Reanalysis of the following samples were performed outside of the analytical holding time: 180-13241-1, 180-13241-2, 180-13241-3, 180-13241-4.

Method 8015B: The laboratory control sample (LCS) for batch 247126 exceeded control limits for the following analytes: GRO. The associated samples were re-analyzed outside holding time. Both sets of data have been reported.

**GC Semi VOA**
Method 8015B: The following samples needed to be re-digested/re-extracted due to poor recovering surrogate: 180-13241-1, 180-13241-9.

Method 8015B: Reprep of the following samples were performed outside of the prepratory holding time: 180-13241-1, 180-13241-9.

Method 8015B: Surrogate recovery for the following sample was outside control limits: 180-13241-9. Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

Method 8015B: Surrogate recovery for the following sample was outside control limits: 180-13241-1. Re-extraction and/or re-analysis was performed outside of holding time with acceptable results.

**Metals**
No analytical or quality issues were noted.

**General Chemistry**
No analytical or quality issues were noted.

**Narrative**

**Job Narrative**
**180-13241-2**

## Job ID: 180-13241-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/8/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperatures of the 5 coolers at receipt time were 2.4º C, 2.7º C, 3.0º C, 5.8º C and 5.9º C.

**General Chemistry**
No analytical or quality issues were noted.

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| * | 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

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| * | LCS or LCSD exceeds the control limits |
| H | Sample was prepped or analyzed beyond the specified holding time |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |
| H | Sample was prepped or analyzed beyond the specified holding time |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| H | Sample was prepped or analyzed beyond the specified holding time |
| B | Compound was found in the blank and sample. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-12 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Solid | 08/06/12 12:30 | 08/08/12 09:00 |
| 180-13241-2 | 22W@2-4' | Solid | 08/06/12 13:30 | 08/08/12 09:00 |
| 180-13241-3 | 24W@2-4' | Solid | 08/06/12 15:00 | 08/08/12 09:00 |
| 180-13241-4 | 80@6-12' | Solid | 08/06/12 15:00 | 08/08/12 09:00 |
| 180-13241-5 | 21W | Water | 08/06/12 13:00 | 08/08/12 09:00 |
| 180-13241-6 | 22W | Water | 08/06/12 13:50 | 08/08/12 09:00 |
| 180-13241-7 | 24W | Water | 08/06/12 16:00 | 08/08/12 09:00 |
| 180-13241-8 | TRIP BLANK | Water | 08/06/12 00:00 | 08/08/12 09:00 |
| 180-13241-9 | 26W@2-4' | Solid | 08/07/12 09:00 | 08/08/12 09:00 |
| 180-13241-10 | 26W | Water | 08/07/12 09:30 | 08/08/12 09:00 |
| 180-13241-11 | 23W@2-4' | Solid | 08/07/12 10:30 | 08/08/12 09:00 |
| 180-13241-12 | 23W | Water | 08/07/12 10:45 | 08/08/12 09:00 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8260B | Volatile Organic Compounds by GC/MS | SW846 | TAL PIT |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8270C | Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | SW846 | TAL PIT |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |
| 6010B | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |
| 7471A | Mercury (CVAA) | SW846 | TAL PIT |
| 1020B | Ignitability, Small Scale Closed-Cup Method | SW846 | TAL PIT |
| 1664A | HEM and SGT-HEM | 1664A | TAL PIT |
| 9012A | Cyanide, Total and/or Amenable | SW846 | TAL PIT |
| 9020B | Organic Halides, Total (TOX) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9034 | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846 | TAL PIT |
| 9045C | pH | SW846 | TAL PIT |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 21W@2-4'**
**Date Collected: 08/06/12 12:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-1**
**Matrix: Solid**
**Percent Solids: 81.8**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 24 | 6.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Benzene | ND | | 6.1 | 0.82 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Dichlorobromomethane | ND | | 6.1 | 0.69 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Bromoform | ND | | 6.1 | 0.54 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Bromomethane | ND | | 6.1 | 0.90 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 2-Butanone (MEK) | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Carbon disulfide | ND | | 6.1 | 0.63 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Carbon tetrachloride | ND | | 6.1 | 0.55 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Chlorobenzene | ND | | 6.1 | 0.93 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Chloroethane | ND | | 6.1 | 1.9 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Chloroform | ND | | 6.1 | 0.71 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Chloromethane | ND | | 6.1 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Chlorodibromomethane | ND | | 6.1 | 0.87 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,1-Dichloroethane | ND | | 6.1 | 0.70 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,2-Dichloroethane | ND | | 6.1 | 0.75 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,1-Dichloroethene | ND | | 6.1 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.6 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,2-Dichloropropane | ND | | 6.1 | 0.66 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 6.1 | 0.83 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 6.1 | 0.73 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Ethylbenzene | ND | | 6.1 | 0.79 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 2-Hexanone | ND | | 6.1 | 0.84 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Methylene Chloride | ND | | 6.1 | 0.82 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 6.1 | 0.80 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Styrene | ND | | 6.1 | 0.86 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.1 | 0.88 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Tetrachloroethene | ND | | 6.1 | 0.83 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,1,1-Trichloroethane | ND | | 6.1 | 0.59 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 6.1 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Trichloroethene | ND | | 6.1 | 0.80 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Vinyl chloride | ND | | 6.1 | 0.57 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Xylenes, Total | ND | | 18 | 2.7 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Cyclohexane | ND | | 6.1 | 0.45 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.1 | 0.91 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Dichlorodifluoromethane | ND | | 6.1 | 0.81 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 6.1 | 0.86 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 6.1 | 0.73 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Isopropylbenzene | ND | | 6.1 | 0.83 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Methyl acetate | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Methylcyclohexane | ND | | 6.1 | 0.89 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Methyl tert-butyl ether | ND | | 6.1 | 0.91 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Trichlorofluoromethane | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.1 | 1.3 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 6.1 | 0.97 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 6.1 | 0.80 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 6.1 | 0.78 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| Toluene | ND | | 6.1 | 0.89 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| o-Xylene | ND | | 6.1 | 0.95 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.8 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 16:32 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 21W@2-4'**
**Date Collected: 08/06/12 12:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-1**
**Matrix: Solid**
**Percent Solids: 81.8**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *87* | | *52 - 124* | *08/15/12 04:11* | *08/15/12 16:32* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *72 - 127* | *08/15/12 04:11* | *08/15/12 16:32* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *63 - 120* | *08/15/12 04:11* | *08/15/12 16:32* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *68 - 121* | *08/15/12 04:11* | *08/15/12 16:32* | *1* |

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 81 | 7.7 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Acetophenone | ND | | 400 | 33 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Acenaphthylene | ND | | 81 | 9.2 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Anthracene | ND | | 81 | 7.9 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Benzo[a]anthracene | ND | | 81 | 10 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Benzo[a]pyrene | ND | | 81 | 8.0 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Benzo[b]fluoranthene | ND | | 81 | 13 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Benzo[g,h,i]perylene | ND | | 81 | 8.0 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Benzo[k]fluoranthene | ND | | 81 | 16 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Bis(2-chloroethyl)ether | ND | | 81 | 11 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 400 | 26 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 81 | 8.7 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 810 | 65 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 400 | 35 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Butyl benzyl phthalate | ND | | 400 | 55 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Carbazole | ND | | 81 | 7.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 4-Chloroaniline | ND | | 400 | 32 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2-Chloronaphthalene | ND | | 81 | 8.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 400 | 45 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Chrysene | ND | | 81 | 9.6 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Dibenz(a,h)anthracene | ND | | 81 | 8.9 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Dibenzofuran | ND | | 400 | 40 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Di-n-butyl phthalate | ND | | 400 | 50 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 400 | 43 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Diethyl phthalate | ND | | 400 | 44 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Dimethyl phthalate | ND | | 400 | 44 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2,4-Dinitrotoluene | ND | | 400 | 32 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2,6-Dinitrotoluene | ND | | 400 | 41 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Di-n-octyl phthalate | ND | | 400 | 42 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Fluoranthene | ND | | 81 | 8.6 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Fluorene | ND | | 81 | 11 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Hexachlorobenzene | ND | | 81 | 8.6 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Hexachlorobutadiene | ND | | 81 | 9.0 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Hexachlorocyclopentadiene | ND | | 400 | 43 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Hexachloroethane | ND | | 400 | 29 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 81 | 8.3 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Isophorone | ND | | 400 | 30 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2-Methylnaphthalene | ND | | 81 | 7.2 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Naphthalene | ND | | 81 | 6.9 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2-Nitroaniline | ND | | 2000 | 180 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 3-Nitroaniline | ND | | 2000 | 170 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 4-Nitroaniline | ND | | 2000 | 160 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Nitrobenzene | ND | | 810 | 33 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 81 | 9.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| N-Nitrosodiphenylamine | ND | | 400 | 37 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 21W@2-4'**
**Date Collected: 08/06/12 12:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-1**
**Matrix: Solid**
**Percent Solids: 81.8**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 81 | 13 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Pyrene | ND | | 81 | 8.1 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 4-Chloro-3-methylphenol | ND | | 400 | 37 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2-Chlorophenol | ND | | 400 | 33 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2-Methylphenol | ND | | 400 | 28 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2,4-Dichlorophenol | ND | | 81 | 8.1 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2,4-Dimethylphenol | ND | | 400 | 63 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2,4-Dinitrophenol | ND | | 2000 | 480 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2000 | 160 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2-Nitrophenol | ND | | 400 | 44 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 4-Nitrophenol | ND | | 2000 | 150 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Pentachlorophenol | ND | | 400 | 36 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Phenol | ND | | 81 | 9.5 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2,4,5-Trichlorophenol | ND | | 400 | 43 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 2,4,6-Trichlorophenol | ND | | 400 | 60 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| 1,1'-Biphenyl | ND | | 400 | 36 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Caprolactam | ND | | 2000 | 300 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Benzaldehyde | ND | | 400 | 60 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Atrazine | ND | | 400 | 39 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |
| Methylphenol, 3 & 4 | ND | | 400 | 39 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *61* | | *25 - 104* | *08/20/12 06:10* | *08/20/12 15:30* | *1* |
| *2-Fluorobiphenyl* | *62* | | *35 - 105* | *08/20/12 06:10* | *08/20/12 15:30* | *1* |
| *Terphenyl-d14* | *66* | | *25 - 127* | *08/20/12 06:10* | *08/20/12 15:30* | *1* |
| *Phenol-d5* | *68* | | *25 - 105* | *08/20/12 06:10* | *08/20/12 15:30* | *1* |
| *2-Fluorophenol* | *65* | | *39 - 103* | *08/20/12 06:10* | *08/20/12 15:30* | *1* |
| *2,4,6-Tribromophenol* | *49* | | *35 - 124* | *08/20/12 06:10* | *08/20/12 15:30* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | * | 0.31 | 0.023 | mg/Kg | ☼ | | 08/17/12 13:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *102* | | *70 - 131* | | *08/17/12 13:32* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC) - RA

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | H | 0.31 | 0.023 | mg/Kg | ☼ | | 08/22/12 01:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/22/12 01:35* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 4.0 | 2.6 | mg/Kg | ☼ | 08/14/12 11:27 | 08/21/12 23:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *47* | *X* | *56 - 135* | *08/14/12 11:27* | *08/21/12 23:31* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

## Client Sample ID: 21W@2-4'

**Lab Sample ID: 180-13241-1**
**Date Collected: 08/06/12 12:30**
**Matrix: Solid**
**Date Received: 08/08/12 09:00**
**Percent Solids: 81.8**

### Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | H | 4.0 | 2.5 | mg/Kg | ☼ | 08/23/12 15:05 | 08/24/12 14:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *58* | | *56 - 135* | *08/23/12 15:05* | *08/24/12 14:33* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | ND | | 200 | 28 | mg/Kg | ☼ | 08/23/12 05:08 | 08/23/12 05:08 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **18** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |
| **Percent Solids** | **82** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |

## Client Sample ID: 22W@2-4'

**Lab Sample ID: 180-13241-2**
**Date Collected: 08/06/12 13:30**
**Matrix: Solid**
**Date Received: 08/08/12 09:00**
**Percent Solids: 83.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.0 | 0.80 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 07:20 | 1 |
| Toluene | ND | | 6.0 | 0.87 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 07:20 | 1 |
| Ethylbenzene | ND | | 6.0 | 0.77 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 07:20 | 1 |
| **Xylenes, Total** | **3.1** | **J** | 18 | 2.7 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 07:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *52 - 124* | *08/17/12 04:05* | *08/17/12 07:20* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *72 - 127* | *08/17/12 04:05* | *08/17/12 07:20* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *63 - 120* | *08/17/12 04:05* | *08/17/12 07:20* | *1* |
| *Dibromofluoromethane (Surr)* | *94* | | *68 - 121* | *08/17/12 04:05* | *08/17/12 07:20* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | * | 0.30 | 0.023 | mg/Kg | ☼ | | 08/17/12 13:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* | | *08/17/12 13:54* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC) - RA

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | H | 0.30 | 0.023 | mg/Kg | ☼ | | 08/22/12 01:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *87* | | *70 - 131* | | *08/22/12 01:55* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.9 | 2.5 | mg/Kg | ☼ | 08/14/12 11:27 | 08/21/12 23:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *57* | | *56 - 135* | *08/14/12 11:27* | *08/21/12 23:45* | *1* |

## Client Sample ID: 22W@2-4'

**Date Collected: 08/06/12 13:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-2**
**Matrix: Solid**
**Percent Solids: 83.9**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 12 | 8.3 | mg/Kg | ☼ | 08/31/12 07:18 | 09/01/12 15:04 | 1 |
| HEM | ND | | 200 | 27 | mg/Kg | ☼ | 08/23/12 05:08 | 08/23/12 05:08 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **16** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |
| **Percent Solids** | **84** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |

## Client Sample ID: 24W@2-4'

**Date Collected: 08/06/12 15:00**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-3**
**Matrix: Solid**
**Percent Solids: 83.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.0 | 0.81 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 07:42 | 1 |
| Toluene | ND | | 6.0 | 0.87 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 07:42 | 1 |
| Ethylbenzene | ND | | 6.0 | 0.77 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 07:42 | 1 |
| Xylenes, Total | ND | | 18 | 2.7 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 07:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *52 - 124* | *08/17/12 04:05* | *08/17/12 07:42* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *72 - 127* | *08/17/12 04:05* | *08/17/12 07:42* | *1* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *63 - 120* | *08/17/12 04:05* | *08/17/12 07:42* | *1* |
| *Dibromofluoromethane (Surr)* | *86* | | *68 - 121* | *08/17/12 04:05* | *08/17/12 07:42* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | * | 0.30 | 0.023 | mg/Kg | ☼ | | 08/17/12 14:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *101* | | *70 - 131* | | *08/17/12 14:13* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC) - RA

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | H | 0.30 | 0.023 | mg/Kg | ☼ | | 08/22/12 02:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *93* | | *70 - 131* | | *08/22/12 02:14* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.9 | 2.5 | mg/Kg | ☼ | 08/14/12 11:27 | 08/21/12 23:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *62* | | *56 - 135* | *08/14/12 11:27* | *08/21/12 23:59* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 12 | 8.4 | mg/Kg | ☼ | 09/01/12 14:25 | 09/01/12 15:04 | 1 |
| HEM | ND | | 200 | 28 | mg/Kg | ☼ | 08/23/12 05:08 | 08/23/12 05:08 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **16** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |
| **Percent Solids** | **84** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |

## Client Sample ID: 80@6-12'

**Date Collected: 08/06/12 15:00**
**Date Received: 08/08/12 09:00**

## Lab Sample ID: 180-13241-4

**Matrix: Solid**
**Percent Solids: 76.1**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.6 | 0.89 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 08:06 | 1 |
| Toluene | ND | | 6.6 | 0.96 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 08:06 | 1 |
| Ethylbenzene | ND | | 6.6 | 0.84 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 08:06 | 1 |
| Xylenes, Total | ND | | 20 | 2.9 | ug/Kg | ☼ | 08/17/12 04:05 | 08/17/12 08:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *72* | | *52 - 124* | *08/17/12 04:05* | *08/17/12 08:06* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *72 - 127* | *08/17/12 04:05* | *08/17/12 08:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *63 - 120* | *08/17/12 04:05* | *08/17/12 08:06* | *1* |
| *Dibromofluoromethane (Surr)* | *87* | | *68 - 121* | *08/17/12 04:05* | *08/17/12 08:06* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | * | 0.33 | 0.025 | mg/Kg | ☼ | | 08/17/12 15:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *126* | | *70 - 131* | | *08/17/12 15:11* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC) - RA

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | H | 0.33 | 0.025 | mg/Kg | ☼ | | 08/22/12 02:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *121* | | *70 - 131* | | *08/22/12 02:34* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **140** | | 4.3 | 2.8 | mg/Kg | ☼ | 08/14/12 11:27 | 08/22/12 00:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *64* | | *56 - 135* | *08/14/12 11:27* | *08/22/12 00:13* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 13 | 9.2 | mg/Kg | ☼ | 08/31/12 07:18 | 09/01/12 15:04 | 1 |
| **HEM** | **270** | | 220 | 30 | mg/Kg | ☼ | 08/23/12 05:08 | 08/23/12 05:08 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **24** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |
| **Percent Solids** | **76** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |

## Client Sample ID: 21W

**Date Collected: 08/06/12 13:00**
**Date Received: 08/08/12 09:00**

## Lab Sample ID: 180-13241-5

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/15/12 19:24 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/15/12 19:24 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 19:24 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:24 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/15/12 19:24 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 21W**
**Date Collected: 08/06/12 13:00**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-5**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:24 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:24 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:24 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 19:24 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 19:24 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 19:24 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/15/12 19:24 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 19:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 19:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/15/12 19:24 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/15/12 19:24 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/15/12 19:24 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:24 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/15/12 19:24 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 19:24 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 19:24 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/15/12 19:24 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 19:24 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/15/12 19:24 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/15/12 19:24 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 19:24 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/15/12 19:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 19:24 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 19:24 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 19:24 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/15/12 19:24 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 19:24 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 19:24 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/15/12 19:24 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/15/12 19:24 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 19:24 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/15/12 19:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *62 - 123* | | *08/15/12 19:24* | *1* |
| *Toluene-d8 (Surr)* | *84* | | *80 - 120* | | *08/15/12 19:24* | *1* |
| *4-Bromofluorobenzene (Surr)* | *84* | | *75 - 120* | | *08/15/12 19:24* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 21W**
**Date Collected: 08/06/12 13:00**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-5**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* | | *08/15/12 19:24* | *1* |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Acetophenone | ND | | 9.6 | 0.77 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.6 | 0.56 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | 0.61 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Butyl benzyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 4-Chloroaniline | ND | | 9.6 | 0.85 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.6 | 0.48 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Dibenzofuran | ND | | 9.6 | 0.59 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Di-n-butyl phthalate | ND | | 9.6 | 1.2 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.6 | 1.1 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Diethyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Dimethyl phthalate | ND | | 9.6 | 0.74 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | 0.52 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.6 | 0.77 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Di-n-octyl phthalate | ND | | 9.6 | 2.0 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.6 | 0.50 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Hexachloroethane | ND | | 9.6 | 0.60 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Isophorone | ND | | 9.6 | 0.62 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.4 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Nitrobenzene | ND | | 19 | 0.81 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.6 | 0.82 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |

## Client Sample ID: 21W

**Lab Sample ID: 180-13241-5**

**Date Collected: 08/06/12 13:00**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | ND | | 9.6 | 0.73 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2-Chlorophenol | ND | | 9.6 | 1.6 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2-Methylphenol | ND | | 9.6 | 0.83 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2,4-Dimethylphenol | ND | | 9.6 | 0.82 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.9 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2-Nitrophenol | ND | | 9.6 | 1.6 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Pentachlorophenol | ND | | 9.6 | 0.64 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.6 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.6 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| 1,1'-Biphenyl | ND | | 9.6 | 0.40 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Benzaldehyde | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Atrazine | ND | | 9.6 | 0.86 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.6 | 0.87 | ug/L | | 08/11/12 13:59 | 08/14/12 16:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *65* | | *37 - 104* | *08/11/12 13:59* | *08/14/12 16:02* | *1* |
| *2-Fluorobiphenyl* | *63* | | *35 - 108* | *08/11/12 13:59* | *08/14/12 16:02* | *1* |
| *Terphenyl-d14* | *58* | | *25 - 130* | *08/11/12 13:59* | *08/14/12 16:02* | *1* |
| *Phenol-d5* | *68* | | *30 - 102* | *08/11/12 13:59* | *08/14/12 16:02* | *1* |
| *2-Fluorophenol* | *65* | | *26 - 100* | *08/11/12 13:59* | *08/14/12 16:02* | *1* |
| *2,4,6-Tribromophenol* | *60* | | *33 - 122* | *08/11/12 13:59* | *08/14/12 16:02* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 12:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 130* | | *08/20/12 12:28* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.12** | | 0.098 | 0.049 | mg/L | | 08/13/12 15:26 | 08/21/12 21:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *81* | | *62 - 130* | *08/13/12 15:26* | *08/21/12 21:39* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.2** | **J** | 5.2 | 1.5 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |

## Client Sample ID: 22W

**Lab Sample ID: 180-13241-6**

**Date Collected: 08/06/12 13:50**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/13/12 07:50 | 1 |

## Client Sample ID: 22W

**Lab Sample ID: 180-13241-6**

**Date Collected: 08/06/12 13:50**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/13/12 07:50 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/13/12 07:50 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/13/12 07:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *120* | | *64 - 135* | | *08/13/12 07:50* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *71 - 118* | | *08/13/12 07:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 118* | | *08/13/12 07:50* | *1* |
| *Dibromofluoromethane (Surr)* | *115* | | *70 - 128* | | *08/13/12 07:50* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 12:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/20/12 12:53* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.48** | | 0.098 | 0.049 | mg/L | | 08/13/12 15:26 | 08/21/12 22:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *70* | | *62 - 130* | *08/13/12 15:26* | *08/21/12 22:21* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.3** | **J** | 5.2 | 1.5 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |
| **Halogens, Total Organic** | **0.064** | | 0.020 | 0.0070 | mg/L | | 08/20/12 08:27 | 08/20/12 15:58 | 2 |

## Client Sample ID: 24W

**Lab Sample ID: 180-13241-7**

**Date Collected: 08/06/12 16:00**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/13/12 08:13 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/13/12 08:13 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/13/12 08:13 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/13/12 08:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *122* | | *64 - 135* | | *08/13/12 08:13* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *71 - 118* | | *08/13/12 08:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *70 - 118* | | *08/13/12 08:13* | *1* |
| *Dibromofluoromethane (Surr)* | *114* | | *70 - 128* | | *08/13/12 08:13* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 13:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *98* | | *70 - 130* | | *08/20/12 13:19* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

## Client Sample ID: 24W

**Lab Sample ID: 180-13241-7**

**Date Collected: 08/06/12 16:00**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.22 | | 0.12 | 0.062 | mg/L | | 08/13/12 15:26 | 08/22/12 02:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *86* | | *62 - 130* | *08/13/12 15:26* | *08/22/12 02:04* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 2.2 | J | 5.2 | 1.5 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |
| Halogens, Total Organic | 0.020 | | 0.020 | 0.0070 | mg/L | | 08/20/12 08:27 | 08/20/12 15:58 | 2 |

## Client Sample ID: TRIP BLANK

**Lab Sample ID: 180-13241-8**

**Date Collected: 08/06/12 00:00**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/15/12 19:49 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/15/12 19:49 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 19:49 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:49 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/15/12 19:49 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:49 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:49 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:49 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 19:49 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 19:49 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 19:49 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/15/12 19:49 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 19:49 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 19:49 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/15/12 19:49 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/15/12 19:49 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/15/12 19:49 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 19:49 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/15/12 19:49 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 19:49 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 19:49 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/15/12 19:49 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 19:49 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/15/12 19:49 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/15/12 19:49 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 19:49 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

## Client Sample ID: TRIP BLANK

**Lab Sample ID: 180-13241-8**

**Date Collected: 08/06/12 00:00**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/15/12 19:49 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 19:49 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 19:49 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 19:49 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/15/12 19:49 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 19:49 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 19:49 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/15/12 19:49 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/15/12 19:49 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 19:49 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/15/12 19:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *78* | | *62 - 123* | | *08/15/12 19:49* | *1* |
| *Toluene-d8 (Surr)* | *83* | | *80 - 120* | | *08/15/12 19:49* | *1* |
| *4-Bromofluorobenzene (Surr)* | *84* | | *75 - 120* | | *08/15/12 19:49* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* | | *08/15/12 19:49* | *1* |

## Client Sample ID: 26W@2-4'

**Lab Sample ID: 180-13241-9**

**Date Collected: 08/07/12 09:00**

**Matrix: Solid**

**Date Received: 08/08/12 09:00**

**Percent Solids: 88.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 23 | 5.7 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Benzene | ND | | 5.7 | 0.77 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Dichlorobromomethane | ND | | 5.7 | 0.64 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Bromoform | ND | | 5.7 | 0.50 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Bromomethane | ND | | 5.7 | 0.84 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 2-Butanone (MEK) | ND | | 5.7 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Carbon disulfide | ND | | 5.7 | 0.58 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Carbon tetrachloride | ND | | 5.7 | 0.51 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Chlorobenzene | ND | | 5.7 | 0.86 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Chloroethane | ND | | 5.7 | 1.8 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Chloroform | ND | | 5.7 | 0.66 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Chloromethane | ND | | 5.7 | 0.97 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Chlorodibromomethane | ND | | 5.7 | 0.81 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,1-Dichloroethane | ND | | 5.7 | 0.65 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,2-Dichloroethane | ND | | 5.7 | 0.70 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,1-Dichloroethene | ND | | 5.7 | 0.96 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,2-Dichloroethene, Total | ND | | 11 | 1.5 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,2-Dichloropropane | ND | | 5.7 | 0.62 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.7 | 0.77 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.7 | 0.68 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Ethylbenzene | ND | | 5.7 | 0.73 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 2-Hexanone | ND | | 5.7 | 0.78 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Methylene Chloride | ND | | 5.7 | 0.76 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |

**Client Sample ID: 26W@2-4'**
**Date Collected: 08/07/12 09:00**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-9**
**Matrix: Solid**
**Percent Solids: 88.2**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.7 | 0.74 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Styrene | ND | | 5.7 | 0.80 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.7 | 0.81 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Tetrachloroethene | ND | | 5.7 | 0.77 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.7 | 0.55 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.7 | 0.94 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Trichloroethene | ND | | 5.7 | 0.75 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Vinyl chloride | ND | | 5.7 | 0.53 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Xylenes, Total | ND | | 17 | 2.5 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Cyclohexane | ND | | 5.7 | 0.42 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.7 | 0.85 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.7 | 0.98 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Dichlorodifluoromethane | ND | | 5.7 | 0.76 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.7 | 0.80 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.7 | 0.68 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Isopropylbenzene | ND | | 5.7 | 0.77 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Methyl acetate | ND | | 5.7 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Methylcyclohexane | ND | | 5.7 | 0.82 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Methyl tert-butyl ether | ND | | 5.7 | 0.85 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Trichlorofluoromethane | ND | | 5.7 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.7 | 1.2 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.7 | 0.90 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.7 | 0.74 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.7 | 0.72 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.7 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| Toluene | ND | | 5.7 | 0.83 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| o-Xylene | ND | | 5.7 | 0.88 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |
| m-Xylene & p-Xylene | ND | | 11 | 1.7 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 14:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *71* | | *52 - 124* | *08/15/12 04:11* | *08/15/12 14:47* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *72 - 127* | *08/15/12 04:11* | *08/15/12 14:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *82* | | *63 - 120* | *08/15/12 04:11* | *08/15/12 14:47* | *1* |
| *Dibromofluoromethane (Surr)* | *86* | | *68 - 121* | *08/15/12 04:11* | *08/15/12 14:47* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 75 | 7.1 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Acetophenone | ND | | 370 | 30 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Acenaphthylene | ND | | 75 | 8.5 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Anthracene | ND | | 75 | 7.3 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Benzo[a]anthracene | ND | | 75 | 9.3 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Benzo[a]pyrene | ND | | 75 | 7.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Benzo[b]fluoranthene | ND | | 75 | 12 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Benzo[g,h,i]perylene | ND | | 75 | 7.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Benzo[k]fluoranthene | ND | | 75 | 15 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Bis(2-chloroethyl)ether | ND | | 75 | 10 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 370 | 24 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 75 | 8.0 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 750 | 60 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 370 | 32 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 26W@2-4'**
**Date Collected: 08/07/12 09:00**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-9**
**Matrix: Solid**
**Percent Solids: 88.2**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Butyl benzyl phthalate | ND | | 370 | 51 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Carbazole | ND | | 75 | 6.8 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 4-Chloroaniline | ND | | 370 | 30 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2-Chloronaphthalene | ND | | 75 | 7.7 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 370 | 41 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Chrysene | ND | | 75 | 8.8 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Dibenz(a,h)anthracene | ND | | 75 | 8.3 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Dibenzofuran | ND | | 370 | 36 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Di-n-butyl phthalate | ND | | 370 | 46 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 370 | 39 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Diethyl phthalate | ND | | 370 | 41 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Dimethyl phthalate | ND | | 370 | 40 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2,4-Dinitrotoluene | ND | | 370 | 30 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2,6-Dinitrotoluene | ND | | 370 | 38 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Di-n-octyl phthalate | ND | | 370 | 39 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Fluoranthene | ND | | 75 | 7.9 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Fluorene | ND | | 75 | 9.8 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Hexachlorobenzene | ND | | 75 | 7.9 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Hexachlorobutadiene | ND | | 75 | 8.3 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Hexachlorocyclopentadiene | ND | | 370 | 40 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Hexachloroethane | ND | | 370 | 27 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 75 | 7.6 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Isophorone | ND | | 370 | 28 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2-Methylnaphthalene | ND | | 75 | 6.7 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Naphthalene | ND | | 75 | 6.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2-Nitroaniline | ND | | 1900 | 170 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 3-Nitroaniline | ND | | 1900 | 150 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 4-Nitroaniline | ND | | 1900 | 150 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Nitrobenzene | ND | | 750 | 31 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 75 | 8.7 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| N-Nitrosodiphenylamine | ND | | 370 | 34 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Phenanthrene | ND | | 75 | 12 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Pyrene | ND | | 75 | 7.5 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 4-Chloro-3-methylphenol | ND | | 370 | 34 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2-Chlorophenol | ND | | 370 | 30 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2-Methylphenol | ND | | 370 | 26 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2,4-Dichlorophenol | ND | | 75 | 7.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2,4-Dimethylphenol | ND | | 370 | 58 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2,4-Dinitrophenol | ND | | 1900 | 440 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1900 | 150 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2-Nitrophenol | ND | | 370 | 41 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 4-Nitrophenol | ND | | 1900 | 140 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Pentachlorophenol | ND | | 370 | 33 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Phenol | ND | | 75 | 8.8 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2,4,5-Trichlorophenol | ND | | 370 | 40 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 2,4,6-Trichlorophenol | ND | | 370 | 56 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| 1,1'-Biphenyl | ND | | 370 | 33 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Caprolactam | ND | | 1900 | 280 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Benzaldehyde | ND | | 370 | 56 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Atrazine | ND | | 370 | 36 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |
| Methylphenol, 3 & 4 | ND | | 370 | 36 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 15:54 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 26W@2-4'**
**Date Collected: 08/07/12 09:00**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-9**
**Matrix: Solid**
**Percent Solids: 88.2**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *54* | | *25 - 104* | *08/20/12 06:10* | *08/20/12 15:54* | *1* |
| *2-Fluorobiphenyl* | *55* | | *35 - 105* | *08/20/12 06:10* | *08/20/12 15:54* | *1* |
| *Terphenyl-d14* | *62* | | *25 - 127* | *08/20/12 06:10* | *08/20/12 15:54* | *1* |
| *Phenol-d5* | *62* | | *25 - 105* | *08/20/12 06:10* | *08/20/12 15:54* | *1* |
| *2-Fluorophenol* | *59* | | *39 - 103* | *08/20/12 06:10* | *08/20/12 15:54* | *1* |
| *2,4,6-Tribromophenol* | *45* | | *35 - 124* | *08/20/12 06:10* | *08/20/12 15:54* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.28 | 0.022 | mg/Kg | ☼ | | 08/21/12 13:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *105* | | *70 - 131* | | *08/21/12 13:15* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **8.3** | | 3.7 | 2.4 | mg/Kg | ☼ | 08/14/12 11:27 | 08/22/12 00:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *54* | *X* | *56 - 135* | *08/14/12 11:27* | *08/22/12 00:27* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | H | 3.7 | 2.4 | mg/Kg | ☼ | 08/23/12 15:05 | 08/24/12 14:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *52* | *X* | *56 - 135* | *08/23/12 15:05* | *08/24/12 14:47* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 19 | 2.8 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 18:42 | 1 |
| PCB-1221 | ND | | 19 | 3.6 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 18:42 | 1 |
| PCB-1232 | ND | | 19 | 3.2 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 18:42 | 1 |
| PCB-1242 | ND | | 19 | 3.1 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 18:42 | 1 |
| PCB-1248 | ND | | 19 | 1.8 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 18:42 | 1 |
| PCB-1254 | ND | | 19 | 2.7 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 18:42 | 1 |
| PCB-1260 | ND | | 19 | 2.7 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 18:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *63* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 18:42* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *70* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 18:42* | *1* |

## Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.9** | | 1.0 | 0.23 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:39 | 1 |
| **Barium** | **29** | | 20 | 0.051 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:39 | 1 |
| Cadmium | ND | | 0.51 | 0.025 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:39 | 1 |
| **Chromium** | **15** | | 0.51 | 0.087 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:39 | 1 |
| **Lead** | **7.6** | | 0.31 | 0.15 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:39 | 1 |
| Selenium | ND | | 0.51 | 0.21 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:39 | 1 |
| Silver | ND | | 0.51 | 0.059 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:39 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

## Client Sample ID: 26W@2-4'

**Lab Sample ID: 180-13241-9**

**Date Collected: 08/07/12 09:00**
**Matrix: Solid**
**Date Received: 08/08/12 09:00**
**Percent Solids: 88.2**

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.011 | J | 0.035 | 0.011 | mg/Kg | ☼ | 08/23/12 02:59 | 08/23/12 09:06 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | ND | | 190 | 26 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |
| Percent Solids | 88 | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |

## Client Sample ID: 26W

**Lab Sample ID: 180-13241-10**

**Date Collected: 08/07/12 09:30**
**Matrix: Water**
**Date Received: 08/08/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/15/12 20:14 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/15/12 20:14 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 20:14 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:14 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/15/12 20:14 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:14 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:14 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:14 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 20:14 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 20:14 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 20:14 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/15/12 20:14 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 20:14 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 20:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/15/12 20:14 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/15/12 20:14 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/15/12 20:14 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:14 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/15/12 20:14 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 20:14 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 20:14 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/15/12 20:14 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 20:14 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/15/12 20:14 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/15/12 20:14 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 20:14 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 26W**
**Date Collected: 08/07/12 09:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-10**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/15/12 20:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 20:14 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 20:14 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 20:14 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/15/12 20:14 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 20:14 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 20:14 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/15/12 20:14 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/15/12 20:14 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 20:14 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/15/12 20:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *75* | | *62 - 123* | | *08/15/12 20:14* | *1* |
| *Toluene-d8 (Surr)* | *83* | | *80 - 120* | | *08/15/12 20:14* | *1* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *75 - 120* | | *08/15/12 20:14* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 120* | | *08/15/12 20:14* | *1* |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Acetophenone | ND | | 9.6 | 0.77 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.6 | 0.56 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | 0.61 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Butyl benzyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 4-Chloroaniline | ND | | 9.6 | 0.85 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.6 | 0.48 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Dibenzofuran | ND | | 9.6 | 0.59 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Di-n-butyl phthalate | ND | | 9.6 | 1.2 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.6 | 1.1 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Diethyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Dimethyl phthalate | ND | | 9.6 | 0.74 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | 0.52 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 26W**
**Date Collected: 08/07/12 09:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-10**
**Matrix: Water**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | ND | | 9.6 | 0.77 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Di-n-octyl phthalate | ND | | 9.6 | 2.0 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.6 | 0.50 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Hexachloroethane | ND | | 9.6 | 0.60 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Isophorone | ND | | 9.6 | 0.62 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.4 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Nitrobenzene | ND | | 19 | 0.81 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.6 | 0.82 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.6 | 0.73 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2-Chlorophenol | ND | | 9.6 | 1.6 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2-Methylphenol | ND | | 9.6 | 0.83 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2,4-Dimethylphenol | ND | | 9.6 | 0.82 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.9 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2-Nitrophenol | ND | | 9.6 | 1.6 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Pentachlorophenol | ND | | 9.6 | 0.64 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.6 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.6 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| 1,1'-Biphenyl | ND | | 9.6 | 0.40 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Benzaldehyde | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Atrazine | ND | | 9.6 | 0.86 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.6 | 0.87 | ug/L | | 08/11/12 13:59 | 08/14/12 16:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *70* | | *37 - 104* | *08/11/12 13:59* | *08/14/12 16:25* | *1* |
| *2-Fluorobiphenyl* | *71* | | *35 - 108* | *08/11/12 13:59* | *08/14/12 16:25* | *1* |
| *Terphenyl-d14* | *69* | | *25 - 130* | *08/11/12 13:59* | *08/14/12 16:25* | *1* |
| *Phenol-d5* | *74* | | *30 - 102* | *08/11/12 13:59* | *08/14/12 16:25* | *1* |
| *2-Fluorophenol* | *68* | | *26 - 100* | *08/11/12 13:59* | *08/14/12 16:25* | *1* |
| *2,4,6-Tribromophenol* | *61* | | *33 - 122* | *08/11/12 13:59* | *08/14/12 16:25* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 13:44 | 1 |

## Client Sample ID: 26W

**Lab Sample ID: 180-13241-10**

**Date Collected: 08/07/12 09:30**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/20/12 13:44* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.075 | J | 0.098 | 0.049 | mg/L | | 08/13/12 15:26 | 08/21/12 22:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *81* | | *62 - 130* | *08/13/12 15:26* | *08/21/12 22:35* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.096 | ug/L | | 08/10/12 13:00 | 08/18/12 01:32 | 1 |
| PCB-1221 | ND | | 0.38 | 0.095 | ug/L | | 08/10/12 13:00 | 08/18/12 01:32 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 08/10/12 13:00 | 08/18/12 01:32 | 1 |
| PCB-1242 | ND | | 0.38 | 0.071 | ug/L | | 08/10/12 13:00 | 08/18/12 01:32 | 1 |
| PCB-1248 | ND | | 0.38 | 0.087 | ug/L | | 08/10/12 13:00 | 08/18/12 01:32 | 1 |
| PCB-1254 | ND | | 0.38 | 0.087 | ug/L | | 08/10/12 13:00 | 08/18/12 01:32 | 1 |
| PCB-1260 | ND | | 0.38 | 0.052 | ug/L | | 08/10/12 13:00 | 08/18/12 01:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *90* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 01:32* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *86* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 01:32* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 6.3 | J | 10 | 2.7 | ug/L | | 08/13/12 16:34 | 08/24/12 00:09 | 1 |
| Barium | 34 | J | 200 | 0.62 | ug/L | | 08/13/12 16:34 | 08/24/12 00:09 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 08/13/12 16:34 | 08/24/12 00:09 | 1 |
| Chromium | 15 | | 5.0 | 0.57 | ug/L | | 08/13/12 16:34 | 08/24/12 00:09 | 1 |
| Lead | 7.0 | | 3.0 | 1.3 | ug/L | | 08/13/12 16:34 | 08/24/12 00:09 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/13/12 16:34 | 08/24/12 00:09 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/13/12 16:34 | 08/24/12 00:09 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/23/12 08:54 | 08/23/12 13:49 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 2.3 | J | 5.2 | 1.5 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |

## Client Sample ID: 23W@2-4'

**Lab Sample ID: 180-13241-11**

**Date Collected: 08/07/12 10:30**

**Matrix: Solid**

**Date Received: 08/08/12 09:00**

**Percent Solids: 82.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 24 | 6.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Benzene | ND | | 6.1 | 0.82 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Dichlorobromomethane | ND | | 6.1 | 0.68 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Bromoform | ND | | 6.1 | 0.54 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Bromomethane | ND | | 6.1 | 0.90 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 2-Butanone (MEK) | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 23W@2-4'**
**Date Collected: 08/07/12 10:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-11**
**Matrix: Solid**
**Percent Solids: 82.2**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Carbon disulfide | ND | | 6.1 | 0.62 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Carbon tetrachloride | ND | | 6.1 | 0.54 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Chlorobenzene | ND | | 6.1 | 0.92 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Chloroethane | ND | | 6.1 | 1.9 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Chloroform | ND | | 6.1 | 0.71 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Chloromethane | ND | | 6.1 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Chlorodibromomethane | ND | | 6.1 | 0.86 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,1-Dichloroethane | ND | | 6.1 | 0.70 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,2-Dichloroethane | ND | | 6.1 | 0.75 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,1-Dichloroethene | ND | | 6.1 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.6 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,2-Dichloropropane | ND | | 6.1 | 0.66 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| cis-1,3-Dichloropropene | ND | | 6.1 | 0.82 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 6.1 | 0.73 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Ethylbenzene | ND | | 6.1 | 0.78 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 2-Hexanone | ND | | 6.1 | 0.84 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Methylene Chloride | ND | | 6.1 | 0.82 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 6.1 | 0.79 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Styrene | ND | | 6.1 | 0.86 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.1 | 0.87 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Tetrachloroethene | ND | | 6.1 | 0.83 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,1,1-Trichloroethane | ND | | 6.1 | 0.59 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 6.1 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Trichloroethene | ND | | 6.1 | 0.80 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Vinyl chloride | ND | | 6.1 | 0.57 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Xylenes, Total | ND | | 18 | 2.7 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Cyclohexane | ND | | 6.1 | 0.45 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.1 | 0.91 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | 1.0 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Dichlorodifluoromethane | ND | | 6.1 | 0.81 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| cis-1,2-Dichloroethene | ND | | 6.1 | 0.86 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 6.1 | 0.72 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Isopropylbenzene | ND | | 6.1 | 0.83 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Methyl acetate | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Methylcyclohexane | ND | | 6.1 | 0.88 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Methyl tert-butyl ether | ND | | 6.1 | 0.91 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Trichlorofluoromethane | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.1 | 1.3 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 6.1 | 0.97 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 6.1 | 0.80 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 6.1 | 0.77 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 6.1 | 1.1 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| Toluene | ND | | 6.1 | 0.89 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| o-Xylene | ND | | 6.1 | 0.95 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.8 | ug/Kg | ☼ | 08/15/12 04:11 | 08/15/12 15:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *52 - 124* | *08/15/12 04:11* | *08/15/12 15:19* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *72 - 127* | *08/15/12 04:11* | *08/15/12 15:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *63 - 120* | *08/15/12 04:11* | *08/15/12 15:19* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *68 - 121* | *08/15/12 04:11* | *08/15/12 15:19* | *1* |

**Client Sample ID: 23W@2-4'**
**Date Collected: 08/07/12 10:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-11**
**Matrix: Solid**

## Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 08/19/12 18:31 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 08/19/12 18:31 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 08/19/12 18:31 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 08/19/12 18:31 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 08/19/12 18:31 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 08/19/12 18:31 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 08/19/12 18:31 | 40 |
| **Tetrachloroethene** | **0.037** | **J** | 0.20 | 0.033 | mg/L | | | 08/19/12 18:31 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 08/19/12 18:31 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 08/19/12 18:31 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *115* | | *80 - 120* | | *08/19/12 18:31* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *69* | | *62 - 123* | | *08/19/12 18:31* | *40* |
| *4-Bromofluorobenzene (Surr)* | *77* | | *75 - 120* | | *08/19/12 18:31* | *40* |
| *Dibromofluoromethane (Surr)* | *87* | | *80 - 120* | | *08/19/12 18:31* | *40* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/17/12 17:30 | 08/20/12 18:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *51* | | *19 - 138* | *08/17/12 17:30* | *08/20/12 18:30* | *1* |
| *2-Fluorobiphenyl* | *54* | | *35 - 115* | *08/17/12 17:30* | *08/20/12 18:30* | *1* |
| *2-Fluorophenol* | *63* | | *20 - 110* | *08/17/12 17:30* | *08/20/12 18:30* | *1* |
| *Nitrobenzene-d5* | *65* | | *39 - 115* | *08/17/12 17:30* | *08/20/12 18:30* | *1* |
| *Phenol-d5* | *67* | | *30 - 118* | *08/17/12 17:30* | *08/20/12 18:30* | *1* |
| *Terphenyl-d14* | *60* | | *30 - 143* | *08/17/12 17:30* | *08/20/12 18:30* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 80 | 7.7 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Acetophenone | ND | | 400 | 33 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Acenaphthylene | ND | | 80 | 9.2 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Anthracene | ND | | 80 | 7.8 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Benzo[a]anthracene | ND | | 80 | 10 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Benzo[a]pyrene | ND | | 80 | 8.0 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Benzo[b]fluoranthene | ND | | 80 | 13 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Benzo[g,h,i]perylene | ND | | 80 | 8.0 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Benzo[k]fluoranthene | ND | | 80 | 16 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Bis(2-chloroethyl)ether | ND | | 80 | 11 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 23W@2-4'**
**Date Collected: 08/07/12 10:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-11**
**Matrix: Solid**
**Percent Solids: 82.2**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bis(2-chloroethoxy)methane | ND | | 400 | 26 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 80 | 8.6 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 800 | 65 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 400 | 35 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Butyl benzyl phthalate | ND | | 400 | 55 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Carbazole | ND | | 80 | 7.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 4-Chloroaniline | ND | | 400 | 32 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2-Chloronaphthalene | ND | | 80 | 8.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 400 | 45 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Chrysene | ND | | 80 | 9.5 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Dibenz(a,h)anthracene | ND | | 80 | 8.9 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Dibenzofuran | ND | | 400 | 39 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Di-n-butyl phthalate | ND | | 400 | 50 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 400 | 42 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Diethyl phthalate | ND | | 400 | 44 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Dimethyl phthalate | ND | | 400 | 44 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2,4-Dinitrotoluene | ND | | 400 | 32 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2,6-Dinitrotoluene | ND | | 400 | 41 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Di-n-octyl phthalate | ND | | 400 | 42 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Fluoranthene | ND | | 80 | 8.6 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Fluorene | ND | | 80 | 11 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Hexachlorobenzene | ND | | 80 | 8.5 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Hexachlorobutadiene | ND | | 80 | 9.0 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Hexachlorocyclopentadiene | ND | | 400 | 43 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Hexachloroethane | ND | | 400 | 29 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 80 | 8.3 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Isophorone | ND | | 400 | 30 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2-Methylnaphthalene | ND | | 80 | 7.2 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Naphthalene | ND | | 80 | 6.9 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2-Nitroaniline | ND | | 2000 | 180 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 3-Nitroaniline | ND | | 2000 | 160 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 4-Nitroaniline | ND | | 2000 | 160 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Nitrobenzene | ND | | 800 | 33 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 80 | 9.4 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| N-Nitrosodiphenylamine | ND | | 400 | 37 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Phenanthrene | ND | | 80 | 13 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Pyrene | ND | | 80 | 8.1 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 4-Chloro-3-methylphenol | ND | | 400 | 37 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2-Chlorophenol | ND | | 400 | 33 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2-Methylphenol | ND | | 400 | 28 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2,4-Dichlorophenol | ND | | 80 | 8.0 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2,4-Dimethylphenol | ND | | 400 | 63 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2,4-Dinitrophenol | ND | | 2000 | 480 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2000 | 160 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2-Nitrophenol | ND | | 400 | 44 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 4-Nitrophenol | ND | | 2000 | 150 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Pentachlorophenol | ND | | 400 | 36 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Phenol | ND | | 80 | 9.5 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2,4,5-Trichlorophenol | ND | | 400 | 43 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 2,4,6-Trichlorophenol | ND | | 400 | 60 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| 1,1'-Biphenyl | ND | | 400 | 36 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 23W@2-4'**
**Date Collected: 08/07/12 10:30**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-11**
**Matrix: Solid**
**Percent Solids: 82.2**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Caprolactam | ND | | 2000 | 300 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Benzaldehyde | ND | | 400 | 60 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Atrazine | ND | | 400 | 39 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |
| Methylphenol, 3 & 4 | ND | | 400 | 39 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 16:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *55* | | *25 - 104* | *08/20/12 06:10* | *08/20/12 16:18* | *1* |
| *2-Fluorobiphenyl* | *54* | | *35 - 105* | *08/20/12 06:10* | *08/20/12 16:18* | *1* |
| *Terphenyl-d14* | *60* | | *25 - 127* | *08/20/12 06:10* | *08/20/12 16:18* | *1* |
| *Phenol-d5* | *63* | | *25 - 105* | *08/20/12 06:10* | *08/20/12 16:18* | *1* |
| *2-Fluorophenol* | *60* | | *39 - 103* | *08/20/12 06:10* | *08/20/12 16:18* | *1* |
| *2,4,6-Tribromophenol* | *42* | | *35 - 124* | *08/20/12 06:10* | *08/20/12 16:18* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.30 | 0.023 | mg/Kg | ☼ | | 08/21/12 13:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *111* | | *70 - 131* | | *08/21/12 13:34* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **4.9** | | 4.0 | 2.5 | mg/Kg | ☼ | 08/14/12 11:27 | 08/22/12 00:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *78* | | *56 - 135* | *08/14/12 11:27* | *08/22/12 00:41* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 20 | 3.0 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:10 | 1 |
| PCB-1221 | ND | | 20 | 3.8 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:10 | 1 |
| PCB-1232 | ND | | 20 | 3.4 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:10 | 1 |
| PCB-1242 | ND | | 20 | 3.3 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:10 | 1 |
| PCB-1248 | ND | | 20 | 1.9 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:10 | 1 |
| PCB-1254 | ND | | 20 | 2.9 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:10 | 1 |
| PCB-1260 | ND | | 20 | 2.9 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *70* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 19:10* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *78* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 19:10* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.3** | | 1.1 | 0.25 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:44 | 1 |
| **Barium** | **27** | | 23 | 0.057 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:44 | 1 |
| Cadmium | ND | | 0.57 | 0.027 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:44 | 1 |
| **Chromium** | **8.5** | | 0.57 | 0.097 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:44 | 1 |
| **Lead** | **20** | | 0.34 | 0.16 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:44 | 1 |
| **Selenium** | **0.33** | **J** | 0.57 | 0.24 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:44 | 1 |
| Silver | ND | | 0.57 | 0.066 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:44 | 1 |

## Client Sample ID: 23W@2-4'

**Lab Sample ID: 180-13241-11**

**Date Collected: 08/07/12 10:30**

**Matrix: Solid**

**Date Received: 08/08/12 09:00**

### Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/20/12 10:45 | 08/21/12 23:26 | 1 |
| **Barium** | **0.21** | **B** | 0.20 | 0.00062 | mg/L | | 08/20/12 10:45 | 08/21/12 23:26 | 1 |
| **Cadmium** | **0.00031** | **J** | 0.050 | 0.00013 | mg/L | | 08/20/12 10:45 | 08/21/12 23:26 | 1 |
| **Chromium** | **0.0020** | **J B** | 0.050 | 0.00057 | mg/L | | 08/20/12 10:45 | 08/21/12 23:26 | 1 |
| **Lead** | **0.017** | **J** | 0.050 | 0.0013 | mg/L | | 08/20/12 10:45 | 08/21/12 23:26 | 1 |
| **Selenium** | **0.0066** | **J B** | 0.050 | 0.0030 | mg/L | | 08/20/12 10:45 | 08/21/12 23:26 | 1 |
| **Silver** | **0.00083** | **J B** | 0.050 | 0.00068 | mg/L | | 08/20/12 10:45 | 08/21/12 23:26 | 1 |

### Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/20/12 11:22 | 08/20/12 17:28 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.047** | | 0.038 | 0.013 | mg/Kg | ☼ | 08/23/12 02:59 | 08/23/12 09:07 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.60 | 0.12 | mg/Kg | ☼ | 08/20/12 10:35 | 08/20/12 12:26 | 1 |
| **Sulfide** | **490** | | 36 | 7.2 | mg/Kg | ☼ | 08/11/12 15:42 | 08/11/12 15:51 | 1 |
| **HEM** | **44** | **J B** | 200 | 28 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ignitability** | **>140** | | | | Degrees F | | | 08/22/12 09:50 | 1 |
| **Flashpoint** | **>140** | | | | Degrees F | | | 08/22/12 09:50 | 1 |
| **pH** | **7.08** | **H** | 0.100 | 0.100 | SU | | | 08/16/12 12:18 | 1 |
| **Percent Moisture** | **18** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |
| **Percent Solids** | **82** | | 0.10 | 0.10 | % | | | 08/09/12 13:16 | 1 |

## Client Sample ID: 23W

**Lab Sample ID: 180-13241-12**

**Date Collected: 08/07/12 10:45**

**Matrix: Water**

**Date Received: 08/08/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/15/12 20:40 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/15/12 20:40 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 20:40 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:40 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/15/12 20:40 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:40 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:40 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:40 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 20:40 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 20:40 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 20:40 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/15/12 20:40 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 20:40 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 23W**
**Date Collected: 08/07/12 10:45**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-12**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 20:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/15/12 20:40 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/15/12 20:40 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/15/12 20:40 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 20:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/15/12 20:40 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 20:40 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 20:40 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/15/12 20:40 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 20:40 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/15/12 20:40 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/15/12 20:40 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 20:40 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/15/12 20:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 20:40 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 20:40 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 20:40 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/15/12 20:40 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 20:40 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 20:40 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/15/12 20:40 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/15/12 20:40 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 20:40 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/15/12 20:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *78* | | *62 - 123* | | *08/15/12 20:40* | *1* |
| *Toluene-d8 (Surr)* | *83* | | *80 - 120* | | *08/15/12 20:40* | *1* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *75 - 120* | | *08/15/12 20:40* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *80 - 120* | | *08/15/12 20:40* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Acetophenone | ND | | 9.6 | 0.77 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 23W**
**Date Collected: 08/07/12 10:45**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-12**
**Matrix: Water**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.6 | 0.56 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | 0.61 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Butyl benzyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 4-Chloroaniline | ND | | 9.6 | 0.85 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.6 | 0.48 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Dibenzofuran | ND | | 9.6 | 0.59 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Di-n-butyl phthalate | ND | | 9.6 | 1.2 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.6 | 1.1 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Diethyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Dimethyl phthalate | ND | | 9.6 | 0.74 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | 0.52 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.6 | 0.77 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Di-n-octyl phthalate | ND | | 9.6 | 2.0 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.6 | 0.50 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Hexachloroethane | ND | | 9.6 | 0.60 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Isophorone | ND | | 9.6 | 0.62 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.4 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.7 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Nitrobenzene | ND | | 19 | 0.81 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.6 | 0.82 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.6 | 0.73 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2-Chlorophenol | ND | | 9.6 | 1.6 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2-Methylphenol | ND | | 9.6 | 0.83 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2,4-Dimethylphenol | ND | | 9.6 | 0.82 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.9 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2-Nitrophenol | ND | | 9.6 | 1.6 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Pentachlorophenol | ND | | 9.6 | 0.64 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.6 | 1.5 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.6 | 1.7 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |

**Client Sample ID: 23W**
**Date Collected: 08/07/12 10:45**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-12**
**Matrix: Water**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1'-Biphenyl | ND | | 9.6 | 0.40 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Benzaldehyde | ND | | 9.6 | 1.4 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Atrazine | ND | | 9.6 | 0.86 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.6 | 0.87 | ug/L | | 08/11/12 18:52 | 08/14/12 16:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *64* | | *37 - 104* | *08/11/12 18:52* | *08/14/12 16:49* | *1* |
| *2-Fluorobiphenyl* | *64* | | *35 - 108* | *08/11/12 18:52* | *08/14/12 16:49* | *1* |
| *Terphenyl-d14* | *56* | | *25 - 130* | *08/11/12 18:52* | *08/14/12 16:49* | *1* |
| *Phenol-d5* | *66* | | *30 - 102* | *08/11/12 18:52* | *08/14/12 16:49* | *1* |
| *2-Fluorophenol* | *65* | | *26 - 100* | *08/11/12 18:52* | *08/14/12 16:49* | *1* |
| *2,4,6-Tribromophenol* | *55* | | *33 - 122* | *08/11/12 18:52* | *08/14/12 16:49* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 14:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/20/12 14:10* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.26** | | 0.097 | 0.048 | mg/L | | 08/13/12 15:26 | 08/21/12 22:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *84* | | *62 - 130* | *08/13/12 15:26* | *08/21/12 22:49* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.096 | ug/L | | 08/10/12 13:00 | 08/18/12 01:56 | 1 |
| PCB-1221 | ND | | 0.38 | 0.095 | ug/L | | 08/10/12 13:00 | 08/18/12 01:56 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 08/10/12 13:00 | 08/18/12 01:56 | 1 |
| PCB-1242 | ND | | 0.38 | 0.071 | ug/L | | 08/10/12 13:00 | 08/18/12 01:56 | 1 |
| PCB-1248 | ND | | 0.38 | 0.087 | ug/L | | 08/10/12 13:00 | 08/18/12 01:56 | 1 |
| PCB-1254 | ND | | 0.38 | 0.087 | ug/L | | 08/10/12 13:00 | 08/18/12 01:56 | 1 |
| PCB-1260 | ND | | 0.38 | 0.052 | ug/L | | 08/10/12 13:00 | 08/18/12 01:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *84* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 01:56* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *83* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 01:56* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **84** | | 10 | 2.7 | ug/L | | 08/13/12 16:34 | 08/24/12 00:14 | 1 |
| **Barium** | **160** | **J** | 200 | 0.62 | ug/L | | 08/13/12 16:34 | 08/24/12 00:14 | 1 |
| **Cadmium** | **2.2** | **J** | 5.0 | 0.13 | ug/L | | 08/13/12 16:34 | 08/24/12 00:14 | 1 |
| **Chromium** | **88** | | 5.0 | 0.57 | ug/L | | 08/13/12 16:34 | 08/24/12 00:14 | 1 |
| **Lead** | **42** | | 3.0 | 1.3 | ug/L | | 08/13/12 16:34 | 08/24/12 00:14 | 1 |
| **Selenium** | **5.5** | | 5.0 | 3.0 | ug/L | | 08/13/12 16:34 | 08/24/12 00:14 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/13/12 16:34 | 08/24/12 00:14 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13241-1

**Client Sample ID: 23W**
**Date Collected: 08/07/12 10:45**
**Date Received: 08/08/12 09:00**

**Lab Sample ID: 180-13241-12**
**Matrix: Water**

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.086 | J | 0.20 | 0.038 | ug/L | | 08/23/12 08:54 | 08/23/12 13:51 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 1.8 | J | 4.8 | 1.4 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-44724/4**
**Matrix: Water**
**Analysis Batch: 44724**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/13/12 03:27 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/13/12 03:27 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/13/12 03:27 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/13/12 03:27 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *116* | | *64 - 135* | | *08/13/12 03:27* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *71 - 118* | | *08/13/12 03:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 118* | | *08/13/12 03:27* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *70 - 128* | | *08/13/12 03:27* | *1* |

**Lab Sample ID: LCS 180-44724/6**
**Matrix: Water**
**Analysis Batch: 44724**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 10.0 | 10.8 | | ug/L | | 108 | 80 - 120 | | |
| Ethylbenzene | | | 10.0 | 11.2 | | ug/L | | 112 | 72 - 126 | | |
| Toluene | | | 10.0 | 10.7 | | ug/L | | 107 | 80 - 123 | | |
| Xylenes, Total | | | 30.0 | 32.2 | | ug/L | | 107 | 76 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *108* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *105* | | *70 - 128* |

**Lab Sample ID: LCSD 180-44724/7**
**Matrix: Water**
**Analysis Batch: 44724**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 10.0 | 10.6 | | ug/L | | 106 | 80 - 120 | 2 | 32 |
| Ethylbenzene | | | 10.0 | 10.6 | | ug/L | | 106 | 72 - 126 | 6 | 33 |
| Toluene | | | 10.0 | 10.5 | | ug/L | | 105 | 80 - 123 | 2 | 35 |
| Xylenes, Total | | | 30.0 | 31.2 | | ug/L | | 104 | 76 - 128 | 3 | 32 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *113* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *104* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *109* | | *70 - 128* |

**Lab Sample ID: MB 180-45026/1-A**
**Matrix: Solid**
**Analysis Batch: 45033**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45026**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45026/1-A**
**Matrix: Solid**
**Analysis Batch: 45033**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45026**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorobromomethane | ND | | 5.0 | 0.56 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Bromoform | ND | | 5.0 | 0.44 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Bromomethane | ND | | 5.0 | 0.74 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.88 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.51 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.45 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.76 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Chloroethane | ND | | 5.0 | 1.5 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Chloroform | ND | | 5.0 | 0.58 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Chloromethane | ND | | 5.0 | 0.85 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.71 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.58 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.85 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 1.3 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.54 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.68 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.60 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.69 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.67 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.65 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Styrene | ND | | 5.0 | 0.71 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.72 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.68 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.49 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.83 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Trichloroethene | ND | | 5.0 | 0.66 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.47 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Cyclohexane | ND | | 5.0 | 0.37 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.75 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.86 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.67 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.70 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.60 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Methyl acetate | ND | | 5.0 | 0.90 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.73 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.75 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.92 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.80 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.88 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| o-Xylene | ND | | 5.0 | 0.78 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.5 | ug/Kg | | 08/15/12 04:11 | 08/15/12 06:08 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45026/1-A**
**Matrix: Solid**
**Analysis Batch: 45033**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45026**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *85* | | *52 - 124* | *08/15/12 04:11* | *08/15/12 06:08* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *72 - 127* | *08/15/12 04:11* | *08/15/12 06:08* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *63 - 120* | *08/15/12 04:11* | *08/15/12 06:08* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *68 - 121* | *08/15/12 04:11* | *08/15/12 06:08* | *1* |

**Lab Sample ID: LCS 180-45026/2-A**
**Matrix: Solid**
**Analysis Batch: 45033**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45026**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 27.5 | | ug/Kg | | 69 | 20 - 150 |
| Dichlorobromomethane | 40.0 | 37.0 | | ug/Kg | | 93 | 70 - 125 |
| Benzene | 40.0 | 34.9 | | ug/Kg | | 87 | 77 - 120 |
| Bromoform | 40.0 | 40.1 | | ug/Kg | | 100 | 53 - 140 |
| Bromomethane | 40.0 | 35.8 | | ug/Kg | | 89 | 25 - 150 |
| 2-Butanone (MEK) | 40.0 | 28.4 | | ug/Kg | | 71 | 35 - 149 |
| Carbon disulfide | 40.0 | 36.1 | | ug/Kg | | 90 | 50 - 127 |
| Carbon tetrachloride | 40.0 | 39.5 | | ug/Kg | | 99 | 69 - 122 |
| Chlorobenzene | 40.0 | 35.0 | | ug/Kg | | 88 | 79 - 120 |
| Chloroethane | 40.0 | 50.7 | | ug/Kg | | 127 | 22 - 150 |
| Chloroform | 40.0 | 34.2 | | ug/Kg | | 86 | 72 - 120 |
| Chloromethane | 40.0 | 30.5 | | ug/Kg | | 76 | 44 - 131 |
| Chlorodibromomethane | 40.0 | 38.2 | | ug/Kg | | 95 | 70 - 132 |
| 1,1-Dichloroethane | 40.0 | 33.8 | | ug/Kg | | 85 | 66 - 124 |
| 1,2-Dichloroethane | 40.0 | 31.3 | | ug/Kg | | 78 | 61 - 127 |
| 1,1-Dichloroethene | 40.0 | 35.7 | | ug/Kg | | 89 | 59 - 129 |
| 1,2-Dichloropropane | 40.0 | 34.8 | | ug/Kg | | 87 | 72 - 122 |
| cis-1,3-Dichloropropene | 40.0 | 38.8 | | ug/Kg | | 97 | 73 - 120 |
| trans-1,3-Dichloropropene | 40.0 | 39.8 | | ug/Kg | | 100 | 74 - 129 |
| Ethylbenzene | 40.0 | 36.4 | | ug/Kg | | 91 | 78 - 125 |
| 2-Hexanone | 40.0 | 32.7 | | ug/Kg | | 82 | 32 - 150 |
| Methylene Chloride | 40.0 | 33.1 | | ug/Kg | | 83 | 58 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 30.7 | | ug/Kg | | 77 | 44 - 148 |
| Styrene | 40.0 | 36.7 | | ug/Kg | | 92 | 83 - 129 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 35.7 | | ug/Kg | | 89 | 60 - 139 |
| Tetrachloroethene | 40.0 | 36.5 | | ug/Kg | | 91 | 78 - 129 |
| 1,1,1-Trichloroethane | 40.0 | 38.6 | | ug/Kg | | 97 | 67 - 126 |
| 1,1,2-Trichloroethane | 40.0 | 36.5 | | ug/Kg | | 91 | 70 - 128 |
| Trichloroethene | 40.0 | 36.3 | | ug/Kg | | 91 | 76 - 119 |
| Vinyl chloride | 40.0 | 32.9 | | ug/Kg | | 82 | 63 - 124 |
| Xylenes, Total | 120 | 108 | | ug/Kg | | 90 | 83 - 126 |
| Cyclohexane | 40.0 | 34.0 | | ug/Kg | | 85 | 64 - 130 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 42.8 | | ug/Kg | | 107 | 35 - 136 |
| 1,2-Dibromoethane (EDB) | 40.0 | 36.1 | | ug/Kg | | 90 | 70 - 131 |
| Dichlorodifluoromethane | 40.0 | 29.7 | | ug/Kg | | 74 | 25 - 150 |
| cis-1,2-Dichloroethene | 40.0 | 35.4 | | ug/Kg | | 88 | 80 - 118 |
| trans-1,2-Dichloroethene | 40.0 | 36.7 | | ug/Kg | | 92 | 77 - 121 |
| Isopropylbenzene | 40.0 | 36.4 | | ug/Kg | | 91 | 70 - 133 |
| Methyl acetate | 40.0 | 28.8 | | ug/Kg | | 72 | 27 - 142 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45026/2-A**
**Matrix: Solid**
**Analysis Batch: 45033**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45026**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methylcyclohexane | 40.0 | 34.9 | | ug/Kg | | 87 | 66 - 135 |
| Methyl tert-butyl ether | 40.0 | 37.1 | | ug/Kg | | 93 | 48 - 132 |
| Trichlorofluoromethane | 40.0 | 36.5 | | ug/Kg | | 91 | 20 - 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 34.2 | | ug/Kg | | 86 | 55 - 130 |
| 1,2-Dichlorobenzene | 40.0 | 34.6 | | ug/Kg | | 86 | 71 - 124 |
| 1,3-Dichlorobenzene | 40.0 | 35.2 | | ug/Kg | | 88 | 75 - 118 |
| 1,4-Dichlorobenzene | 40.0 | 34.3 | | ug/Kg | | 86 | 77 - 116 |
| 1,2,4-Trichlorobenzene | 40.0 | 33.3 | | ug/Kg | | 83 | 51 - 136 |
| Toluene | 40.0 | 34.4 | | ug/Kg | | 86 | 78 - 124 |
| o-Xylene | 40.0 | 35.3 | | ug/Kg | | 88 | 83 - 127 |
| m-Xylene & p-Xylene | 80.0 | 73.0 | | ug/Kg | | 91 | 75 - 126 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *86* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *95* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *94* | | *68 - 121* |

**Lab Sample ID: MB 180-45108/3**
**Matrix: Water**
**Analysis Batch: 45108**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/15/12 12:45 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 12:45 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/15/12 12:45 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 12:45 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/15/12 12:45 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 12:45 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 12:45 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 12:45 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 12:45 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 12:45 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 12:45 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/15/12 12:45 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 12:45 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 12:45 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/15/12 12:45 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/15/12 12:45 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/15/12 12:45 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 12:45 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/15/12 12:45 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/15/12 12:45 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45108/3**
**Matrix: Water**
**Analysis Batch: 45108**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 12:45 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/15/12 12:45 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/15/12 12:45 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/15/12 12:45 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/15/12 12:45 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/15/12 12:45 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/15/12 12:45 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/15/12 12:45 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 12:45 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/15/12 12:45 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/15/12 12:45 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/15/12 12:45 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/15/12 12:45 | 1 |
| 1,2,4-Trichlorobenzene | 1.08 | J | 5.0 | 0.38 | ug/L | | | 08/15/12 12:45 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/15/12 12:45 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/15/12 12:45 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/15/12 12:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *85* | | *62 - 123* | | *08/15/12 12:45* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *80 - 120* | | *08/15/12 12:45* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* | | *08/15/12 12:45* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *80 - 120* | | *08/15/12 12:45* | *1* |

**Lab Sample ID: LCS 180-45108/6**
**Matrix: Water**
**Analysis Batch: 45108**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 23.9 | | ug/L | | 60 | 10 - 141 |
| Dichlorobromomethane | 40.0 | 43.6 | | ug/L | | 109 | 71 - 119 |
| Benzene | 40.0 | 40.5 | | ug/L | | 101 | 80 - 120 |
| Bromoform | 40.0 | 40.9 | | ug/L | | 102 | 49 - 137 |
| Bromomethane | 40.0 | 43.3 | | ug/L | | 108 | 45 - 150 |
| 2-Butanone (MEK) | 40.0 | 31.1 | | ug/L | | 78 | 31 - 139 |
| Carbon disulfide | 40.0 | 45.8 | | ug/L | | 114 | 62 - 126 |
| Carbon tetrachloride | 40.0 | 41.1 | | ug/L | | 103 | 63 - 139 |
| Chlorobenzene | 40.0 | 38.3 | | ug/L | | 96 | 83 - 120 |
| Chloroethane | 40.0 | 36.6 | | ug/L | | 91 | 33 - 150 |
| Chloroform | 40.0 | 42.3 | | ug/L | | 106 | 77 - 119 |
| Chloromethane | 40.0 | 32.4 | | ug/L | | 81 | 49 - 133 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45108/6**
**Matrix: Water**
**Analysis Batch: 45108**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chlorodibromomethane | 40.0 | 43.0 | | ug/L | | 108 | 64 - 124 |
| 1,1-Dichloroethane | 40.0 | 36.6 | | ug/L | | 92 | 77 - 122 |
| 1,2-Dichloroethane | 40.0 | 32.7 | | ug/L | | 82 | 63 - 140 |
| 1,1-Dichloroethene | 40.0 | 42.5 | | ug/L | | 106 | 69 - 127 |
| 1,2-Dichloropropane | 40.0 | 32.4 | | ug/L | | 81 | 75 - 114 |
| cis-1,3-Dichloropropene | 40.0 | 41.1 | | ug/L | | 103 | 74 - 123 |
| trans-1,3-Dichloropropene | 40.0 | 40.7 | | ug/L | | 102 | 63 - 122 |
| Ethylbenzene | 40.0 | 40.5 | | ug/L | | 101 | 79 - 124 |
| 2-Hexanone | 40.0 | 33.4 | | ug/L | | 84 | 35 - 129 |
| Methylene Chloride | 40.0 | 44.3 | | ug/L | | 111 | 75 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 45.8 | | ug/L | | 114 | 33 - 135 |
| Styrene | 40.0 | 42.0 | | ug/L | | 105 | 78 - 124 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 44.4 | | ug/L | | 111 | 59 - 136 |
| Tetrachloroethene | 40.0 | 43.2 | | ug/L | | 108 | 78 - 126 |
| 1,1,1-Trichloroethane | 40.0 | 42.1 | | ug/L | | 105 | 69 - 134 |
| 1,1,2-Trichloroethane | 40.0 | 41.1 | | ug/L | | 103 | 75 - 126 |
| Trichloroethene | 40.0 | 36.9 | | ug/L | | 92 | 80 - 120 |
| Vinyl chloride | 40.0 | 43.2 | | ug/L | | 108 | 57 - 128 |
| Xylenes, Total | 120 | 124 | | ug/L | | 103 | 81 - 121 |
| Cyclohexane | 40.0 | 30.6 | | ug/L | | 77 | 69 - 124 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 26.1 | | ug/L | | 65 | 28 - 150 |
| 1,2-Dibromoethane (EDB) | 40.0 | 42.1 | | ug/L | | 105 | 57 - 124 |
| Dichlorodifluoromethane | 40.0 | 44.4 | | ug/L | | 111 | 28 - 140 |
| cis-1,2-Dichloroethene | 40.0 | 44.3 | | ug/L | | 111 | 82 - 116 |
| trans-1,2-Dichloroethene | 40.0 | 44.1 | | ug/L | | 110 | 78 - 120 |
| Isopropylbenzene | 40.0 | 41.9 | | ug/L | | 105 | 73 - 130 |
| Methyl acetate | 40.0 | 25.5 | | ug/L | | 64 | 34 - 127 |
| Methylcyclohexane | 40.0 | 41.5 | | ug/L | | 104 | 67 - 120 |
| Methyl tert-butyl ether | 40.0 | 41.0 | | ug/L | | 102 | 53 - 122 |
| Trichlorofluoromethane | 40.0 | 62.7 | * | ug/L | | 157 | 14 - 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 43.3 | | ug/L | | 108 | 70 - 131 |
| 1,2-Dichlorobenzene | 40.0 | 38.7 | | ug/L | | 97 | 75 - 125 |
| 1,3-Dichlorobenzene | 40.0 | 44.9 | | ug/L | | 112 | 76 - 125 |
| 1,4-Dichlorobenzene | 40.0 | 43.5 | | ug/L | | 109 | 76 - 123 |
| 1,2,4-Trichlorobenzene | 40.0 | 13.1 | * | ug/L | | 33 | 35 - 150 |
| Toluene | 40.0 | 39.2 | | ug/L | | 98 | 80 - 124 |
| o-Xylene | 40.0 | 41.7 | | ug/L | | 104 | 78 - 124 |
| m-Xylene & p-Xylene | 80.0 | 82.1 | | ug/L | | 103 | 78 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *89* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 120* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45334/1-A**
**Matrix: Solid**
**Analysis Batch: 45338**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45334**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/17/12 04:05 | 08/17/12 06:09 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/17/12 04:05 | 08/17/12 06:09 | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 08/17/12 04:05 | 08/17/12 06:09 | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 08/17/12 04:05 | 08/17/12 06:09 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *87* | | *52 - 124* | *08/17/12 04:05* | *08/17/12 06:09* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *72 - 127* | *08/17/12 04:05* | *08/17/12 06:09* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *63 - 120* | *08/17/12 04:05* | *08/17/12 06:09* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *68 - 121* | *08/17/12 04:05* | *08/17/12 06:09* | *1* |

**Lab Sample ID: LCS 180-45334/2-A**
**Matrix: Solid**
**Analysis Batch: 45338**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45334**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 40.0 | 36.5 | | ug/Kg | | 91 | 77 - 120 | | |
| Ethylbenzene | | | 40.0 | 39.6 | | ug/Kg | | 99 | 78 - 125 | | |
| Xylenes, Total | | | 120 | 114 | | ug/Kg | | 95 | 83 - 126 | | |
| Toluene | | | 40.0 | 37.8 | | ug/Kg | | 95 | 78 - 124 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *72* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *84* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *77* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *80* | | *68 - 121* |

**Lab Sample ID: LCSD 180-45334/3-A**
**Matrix: Solid**
**Analysis Batch: 45338**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45334**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 40.0 | 35.1 | | ug/Kg | | 88 | 77 - 120 | 4 | 20 |
| Ethylbenzene | | | 40.0 | 37.9 | | ug/Kg | | 95 | 78 - 125 | 4 | 21 |
| Xylenes, Total | | | 120 | 111 | | ug/Kg | | 93 | 83 - 126 | 2 | 20 |
| Toluene | | | 40.0 | 35.9 | | ug/Kg | | 90 | 78 - 124 | 5 | 21 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *96* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *94* | | *68 - 121* |

## Method: 8260B - Volatile Organic Compounds by GC/MS

**Lab Sample ID: LCS 180-45519/6**
**Matrix: Solid**
**Analysis Batch: 45519**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.400 | 0.412 | | mg/L | | 103 | 80 - 120 |
| 2-Butanone (MEK) | 0.400 | 0.352 | | mg/L | | 88 | 31 - 139 |
| Carbon tetrachloride | 0.400 | 0.336 | | mg/L | | 84 | 63 - 139 |
| Chlorobenzene | 0.400 | 0.424 | | mg/L | | 106 | 83 - 120 |
| Chloroform | 0.400 | 0.358 | | mg/L | | 90 | 77 - 119 |
| 1,2-Dichloroethane | 0.400 | 0.322 | | mg/L | | 80 | 63 - 140 |
| 1,1-Dichloroethene | 0.400 | 0.412 | | mg/L | | 103 | 69 - 127 |
| Tetrachloroethene | 0.400 | 0.435 | | mg/L | | 109 | 78 - 126 |
| Trichloroethene | 0.400 | 0.414 | | mg/L | | 103 | 80 - 120 |
| Vinyl chloride | 0.400 | 0.375 | | mg/L | | 94 | 57 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *81* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 120* |

**Lab Sample ID: LCSD 180-45519/7**
**Matrix: Solid**
**Analysis Batch: 45519**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.400 | 0.403 | | mg/L | | 101 | 80 - 120 | 2 | 20 |
| 2-Butanone (MEK) | 0.400 | 0.304 | | mg/L | | 76 | 31 - 139 | 15 | 35 |
| Carbon tetrachloride | 0.400 | 0.332 | | mg/L | | 83 | 63 - 139 | 1 | 25 |
| Chlorobenzene | 0.400 | 0.414 | | mg/L | | 103 | 83 - 120 | 3 | 20 |
| Chloroform | 0.400 | 0.349 | | mg/L | | 87 | 77 - 119 | 3 | 20 |
| 1,2-Dichloroethane | 0.400 | 0.293 | | mg/L | | 73 | 63 - 140 | 9 | 25 |
| 1,1-Dichloroethene | 0.400 | 0.414 | | mg/L | | 104 | 69 - 127 | 1 | 20 |
| Tetrachloroethene | 0.400 | 0.435 | | mg/L | | 109 | 78 - 126 | 0 | 25 |
| Trichloroethene | 0.400 | 0.410 | | mg/L | | 103 | 80 - 120 | 1 | 20 |
| Vinyl chloride | 0.400 | 0.379 | | mg/L | | 95 | 57 - 128 | 1 | 26 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *109* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 120* |

**Lab Sample ID: LB 180-45424/9-A LB**
**Matrix: Solid**
**Analysis Batch: 45519**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.050 | 0.0099 | mg/L | | | 08/19/12 11:11 | 10 |
| 2-Butanone (MEK) | ND | | 0.050 | 0.011 | mg/L | | | 08/19/12 11:11 | 10 |
| Carbon tetrachloride | ND | | 0.050 | 0.011 | mg/L | | | 08/19/12 11:11 | 10 |
| Chlorobenzene | ND | | 0.050 | 0.0053 | mg/L | | | 08/19/12 11:11 | 10 |
| Chloroform | ND | | 0.050 | 0.010 | mg/L | | | 08/19/12 11:11 | 10 |

## Method: 8260B - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LB 180-45424/9-A LB**
**Matrix: Solid**
**Analysis Batch: 45519**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 0.050 | 0.0096 | mg/L | | | 08/19/12 11:11 | 10 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.011 | mg/L | | | 08/19/12 11:11 | 10 |
| Tetrachloroethene | ND | | 0.050 | 0.0082 | mg/L | | | 08/19/12 11:11 | 10 |
| Trichloroethene | ND | | 0.050 | 0.0080 | mg/L | | | 08/19/12 11:11 | 10 |
| Vinyl chloride | ND | | 0.050 | 0.013 | mg/L | | | 08/19/12 11:11 | 10 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *67* | | *62 - 123* | | *08/19/12 11:11* | *10* |
| *Toluene-d8 (Surr)* | *114* | | *80 - 120* | | *08/19/12 11:11* | *10* |
| *4-Bromofluorobenzene (Surr)* | *82* | | *75 - 120* | | *08/19/12 11:11* | *10* |
| *Dibromofluoromethane (Surr)* | *85* | | *80 - 120* | | *08/19/12 11:11* | *10* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-44683/1-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 2.0 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Acetophenone | ND | | 10 | 0.80 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Acenaphthylene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Anthracene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[a]anthracene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[a]pyrene | ND | | 2.0 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[b]fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[g,h,i]perylene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[k]fluoranthene | ND | | 2.0 | 0.55 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Bis(2-chloroethyl)ether | ND | | 2.0 | 0.25 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 10 | 0.58 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 2.0 | 0.20 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 20 | 13 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 10 | 0.64 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Carbazole | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Chloroaniline | ND | | 10 | 0.89 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Chloronaphthalene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | 0.50 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Chrysene | ND | | 2.0 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Dibenz(a,h)anthracene | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Dibenzofuran | ND | | 10 | 0.62 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 1.2 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 10 | 1.1 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Diethyl phthalate | ND | | 10 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.77 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4-Dinitrotoluene | ND | | 10 | 0.54 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,6-Dinitrotoluene | ND | | 10 | 0.80 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 2.1 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-44683/1-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | | 2.0 | 0.22 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Hexachlorobenzene | ND | | 2.0 | 0.18 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | 0.17 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.52 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Hexachloroethane | ND | | 10 | 0.63 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 2.0 | 0.20 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Isophorone | ND | | 10 | 0.64 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Methylnaphthalene | ND | | 2.0 | 0.12 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Naphthalene | ND | | 2.0 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Nitroaniline | ND | | 50 | 3.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 3-Nitroaniline | ND | | 50 | 3.2 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Nitroaniline | ND | | 50 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Nitrobenzene | ND | | 20 | 0.84 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 2.0 | 0.31 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| N-Nitrosodiphenylamine | ND | | 10 | 0.85 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Phenanthrene | ND | | 2.0 | 0.43 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Pyrene | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Chloro-3-methylphenol | ND | | 10 | 0.75 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Chlorophenol | ND | | 10 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Methylphenol | ND | | 10 | 0.86 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4-Dichlorophenol | ND | | 2.0 | 0.33 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4-Dimethylphenol | ND | | 10 | 0.85 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4-Dinitrophenol | ND | | 50 | 6.1 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 50 | 2.2 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Nitrophenol | ND | | 10 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Nitrophenol | ND | | 50 | 6.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Pentachlorophenol | ND | | 10 | 0.66 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Phenol | ND | | 2.0 | 0.58 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4,6-Trichlorophenol | ND | | 10 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 1,1'-Biphenyl | ND | | 10 | 0.42 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Caprolactam | ND | | 50 | 12 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzaldehyde | ND | | 10 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Atrazine | ND | | 10 | 0.89 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Methylphenol, 3 & 4 | ND | | 10 | 0.90 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *57* | | *37 - 104* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *2-Fluorobiphenyl* | *59* | | *35 - 108* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *Terphenyl-d14* | *75* | | *25 - 130* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *Phenol-d5* | *64* | | *30 - 102* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *2-Fluorophenol* | *58* | | *26 - 100* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *2,4,6-Tribromophenol* | *56* | | *33 - 122* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-44683/2-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 200 | 152 | | ug/L | | 76 | 39 - 106 |
| Acenaphthylene | 200 | 165 | | ug/L | | 83 | 40 - 113 |
| Anthracene | 200 | 163 | | ug/L | | 82 | 37 - 108 |
| Benzo[a]anthracene | 200 | 160 | | ug/L | | 80 | 40 - 103 |
| Benzo[a]pyrene | 200 | 171 | | ug/L | | 85 | 37 - 105 |
| Benzo[b]fluoranthene | 200 | 157 | | ug/L | | 78 | 35 - 100 |
| Benzo[g,h,i]perylene | 200 | 168 | | ug/L | | 84 | 31 - 118 |
| Benzo[k]fluoranthene | 200 | 155 | | ug/L | | 77 | 37 - 108 |
| Bis(2-chloroethyl)ether | 200 | 143 | | ug/L | | 71 | 34 - 96 |
| Bis(2-chloroethoxy)methane | 200 | 147 | | ug/L | | 74 | 36 - 101 |
| bis (2-chloroisopropyl) ether | 200 | 139 | | ug/L | | 70 | 30 - 100 |
| Bis(2-ethylhexyl) phthalate | 200 | 160 | | ug/L | | 80 | 35 - 112 |
| 4-Bromophenyl phenyl ether | 200 | 130 | | ug/L | | 65 | 38 - 108 |
| Butyl benzyl phthalate | 200 | 158 | | ug/L | | 79 | 34 - 110 |
| Carbazole | 200 | 172 | | ug/L | | 86 | 35 - 113 |
| 4-Chloroaniline | 200 | 155 | | ug/L | | 77 | 26 - 99 |
| 2-Chloronaphthalene | 200 | 144 | | ug/L | | 72 | 37 - 102 |
| 4-Chlorophenyl phenyl ether | 200 | 159 | | ug/L | | 79 | 39 - 107 |
| Chrysene | 200 | 157 | | ug/L | | 78 | 39 - 103 |
| Dibenz(a,h)anthracene | 200 | 147 | | ug/L | | 73 | 32 - 117 |
| Dibenzofuran | 200 | 158 | | ug/L | | 79 | 37 - 107 |
| Di-n-butyl phthalate | 200 | 179 | | ug/L | | 90 | 36 - 113 |
| 3,3'-Dichlorobenzidine | 200 | 169 | | ug/L | | 85 | 11 - 106 |
| Diethyl phthalate | 200 | 175 | | ug/L | | 87 | 39 - 112 |
| Dimethyl phthalate | 200 | 166 | | ug/L | | 83 | 40 - 110 |
| 2,4-Dinitrotoluene | 200 | 183 | | ug/L | | 91 | 41 - 117 |
| 2,6-Dinitrotoluene | 200 | 175 | | ug/L | | 87 | 42 - 118 |
| Di-n-octyl phthalate | 200 | 167 | | ug/L | | 84 | 27 - 118 |
| Fluoranthene | 200 | 184 | | ug/L | | 92 | 35 - 111 |
| Fluorene | 200 | 161 | | ug/L | | 81 | 39 - 107 |
| Hexachlorobenzene | 200 | 154 | | ug/L | | 77 | 35 - 106 |
| Hexachlorobutadiene | 200 | 139 | | ug/L | | 70 | 30 - 103 |
| Hexachlorocyclopentadiene | 200 | 148 | | ug/L | | 74 | 19 - 116 |
| Hexachloroethane | 200 | 130 | | ug/L | | 65 | 27 - 94 |
| Indeno[1,2,3-cd]pyrene | 200 | 161 | | ug/L | | 80 | 32 - 116 |
| Isophorone | 200 | 146 | | ug/L | | 73 | 39 - 108 |
| 2-Methylnaphthalene | 200 | 148 | | ug/L | | 74 | 36 - 101 |
| Naphthalene | 200 | 144 | | ug/L | | 72 | 35 - 98 |
| 2-Nitroaniline | 200 | 160 | | ug/L | | 80 | 37 - 114 |
| 3-Nitroaniline | 200 | 179 | | ug/L | | 90 | 32 - 117 |
| 4-Nitroaniline | 200 | 200 | | ug/L | | 100 | 32 - 117 |
| Nitrobenzene | 200 | 140 | | ug/L | | 70 | 37 - 103 |
| N-Nitrosodi-n-propylamine | 200 | 141 | | ug/L | | 70 | 37 - 106 |
| N-Nitrosodiphenylamine | 200 | 166 | | ug/L | | 83 | 34 - 108 |
| Phenanthrene | 200 | 157 | | ug/L | | 79 | 34 - 107 |
| Pyrene | 200 | 142 | | ug/L | | 71 | 36 - 115 |
| 4-Chloro-3-methylphenol | 200 | 157 | | ug/L | | 79 | 40 - 107 |
| 2-Chlorophenol | 200 | 141 | | ug/L | | 71 | 34 - 100 |
| 2-Methylphenol | 200 | 147 | | ug/L | | 73 | 34 - 101 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-44683/2-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | | | 200 | 148 | | ug/L | | 74 | 34 - 106 | | |
| 2,4-Dimethylphenol | | | 200 | 144 | | ug/L | | 72 | 34 - 98 | | |
| 2,4-Dinitrophenol | | | 200 | 180 | | ug/L | | 90 | 3 - 125 | | |
| 4,6-Dinitro-2-methylphenol | | | 200 | 165 | | ug/L | | 82 | 24 - 121 | | |
| 2-Nitrophenol | | | 200 | 147 | | ug/L | | 74 | 33 - 108 | | |
| 4-Nitrophenol | | | 200 | 195 | | ug/L | | 98 | 29 - 120 | | |
| Pentachlorophenol | | | 200 | 165 | | ug/L | | 82 | 10 - 118 | | |
| Phenol | | | 200 | 141 | | ug/L | | 71 | 35 - 98 | | |
| 2,4,5-Trichlorophenol | | | 200 | 152 | | ug/L | | 76 | 31 - 111 | | |
| 2,4,6-Trichlorophenol | | | 200 | 147 | | ug/L | | 73 | 34 - 110 | | |
| Methylphenol, 3 & 4 | | | 400 | 314 | | ug/L | | 78 | 34 - 104 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *73* | | *37 - 104* |
| *2-Fluorobiphenyl* | *76* | | *35 - 108* |
| *Terphenyl-d14* | *83* | | *25 - 130* |
| *Phenol-d5* | *80* | | *30 - 102* |
| *2-Fluorophenol* | *74* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *80* | | *33 - 122* |

**Lab Sample ID: LCSD 180-44683/3-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 200 | 157 | | ug/L | | 79 | 39 - 106 | 3 | 32 |
| Acenaphthylene | | | 200 | 172 | | ug/L | | 86 | 40 - 113 | 4 | 33 |
| Anthracene | | | 200 | 170 | | ug/L | | 85 | 37 - 108 | 4 | 40 |
| Benzo[a]anthracene | | | 200 | 164 | | ug/L | | 82 | 40 - 103 | 2 | 33 |
| Benzo[a]pyrene | | | 200 | 177 | | ug/L | | 89 | 37 - 105 | 4 | 35 |
| Benzo[b]fluoranthene | | | 200 | 166 | | ug/L | | 83 | 35 - 100 | 6 | 44 |
| Benzo[g,h,i]perylene | | | 200 | 178 | | ug/L | | 89 | 31 - 118 | 6 | 45 |
| Benzo[k]fluoranthene | | | 200 | 161 | | ug/L | | 81 | 37 - 108 | 4 | 42 |
| Bis(2-chloroethyl)ether | | | 200 | 146 | | ug/L | | 73 | 34 - 96 | 2 | 34 |
| Bis(2-chloroethoxy)methane | | | 200 | 148 | | ug/L | | 74 | 36 - 101 | 1 | 35 |
| bis (2-chloroisopropyl) ether | | | 200 | 143 | | ug/L | | 72 | 30 - 100 | 3 | 38 |
| Bis(2-ethylhexyl) phthalate | | | 200 | 165 | | ug/L | | 82 | 35 - 112 | 3 | 34 |
| 4-Bromophenyl phenyl ether | | | 200 | 140 | | ug/L | | 70 | 38 - 108 | 7 | 40 |
| Butyl benzyl phthalate | | | 200 | 164 | | ug/L | | 82 | 34 - 110 | 3 | 35 |
| Carbazole | | | 200 | 181 | | ug/L | | 90 | 35 - 113 | 5 | 32 |
| 4-Chloroaniline | | | 200 | 160 | | ug/L | | 80 | 26 - 99 | 4 | 55 |
| 2-Chloronaphthalene | | | 200 | 148 | | ug/L | | 74 | 37 - 102 | 3 | 34 |
| 4-Chlorophenyl phenyl ether | | | 200 | 165 | | ug/L | | 82 | 39 - 107 | 4 | 34 |
| Chrysene | | | 200 | 163 | | ug/L | | 81 | 39 - 103 | 4 | 38 |
| Dibenz(a,h)anthracene | | | 200 | 156 | | ug/L | | 78 | 32 - 117 | 6 | 43 |
| Dibenzofuran | | | 200 | 160 | | ug/L | | 80 | 37 - 107 | 2 | 32 |
| Di-n-butyl phthalate | | | 200 | 186 | | ug/L | | 93 | 36 - 113 | 4 | 39 |
| 3,3'-Dichlorobenzidine | | | 200 | 176 | | ug/L | | 88 | 11 - 106 | 4 | 56 |
| Diethyl phthalate | | | 200 | 178 | | ug/L | | 89 | 39 - 112 | 2 | 32 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-44683/3-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimethyl phthalate | | | 200 | 169 | | ug/L | | 85 | 40 - 110 | 2 | 33 |
| 2,4-Dinitrotoluene | | | 200 | 185 | | ug/L | | 93 | 41 - 117 | 1 | 32 |
| 2,6-Dinitrotoluene | | | 200 | 183 | | ug/L | | 92 | 42 - 118 | 5 | 33 |
| Di-n-octyl phthalate | | | 200 | 174 | | ug/L | | 87 | 27 - 118 | 4 | 36 |
| Fluoranthene | | | 200 | 189 | | ug/L | | 95 | 35 - 111 | 3 | 43 |
| Fluorene | | | 200 | 165 | | ug/L | | 82 | 39 - 107 | 2 | 33 |
| Hexachlorobenzene | | | 200 | 162 | | ug/L | | 81 | 35 - 106 | 5 | 36 |
| Hexachlorobutadiene | | | 200 | 144 | | ug/L | | 72 | 30 - 103 | 3 | 41 |
| Hexachlorocyclopentadiene | | | 200 | 155 | | ug/L | | 78 | 19 - 116 | 5 | 57 |
| Hexachloroethane | | | 200 | 138 | | ug/L | | 69 | 27 - 94 | 5 | 43 |
| Indeno[1,2,3-cd]pyrene | | | 200 | 172 | | ug/L | | 86 | 32 - 116 | 7 | 45 |
| Isophorone | | | 200 | 149 | | ug/L | | 75 | 39 - 108 | 2 | 36 |
| 2-Methylnaphthalene | | | 200 | 152 | | ug/L | | 76 | 36 - 101 | 3 | 35 |
| Naphthalene | | | 200 | 145 | | ug/L | | 73 | 35 - 98 | 1 | 39 |
| 2-Nitroaniline | | | 200 | 166 | | ug/L | | 83 | 37 - 114 | 4 | 33 |
| 3-Nitroaniline | | | 200 | 184 | | ug/L | | 92 | 32 - 117 | 3 | 46 |
| 4-Nitroaniline | | | 200 | 201 | | ug/L | | 101 | 32 - 117 | 1 | 39 |
| Nitrobenzene | | | 200 | 143 | | ug/L | | 71 | 37 - 103 | 2 | 34 |
| N-Nitrosodi-n-propylamine | | | 200 | 146 | | ug/L | | 73 | 37 - 106 | 4 | 36 |
| N-Nitrosodiphenylamine | | | 200 | 171 | | ug/L | | 86 | 34 - 108 | 3 | 42 |
| Phenanthrene | | | 200 | 164 | | ug/L | | 82 | 34 - 107 | 4 | 34 |
| Pyrene | | | 200 | 147 | | ug/L | | 73 | 36 - 115 | 4 | 38 |
| 4-Chloro-3-methylphenol | | | 200 | 164 | | ug/L | | 82 | 40 - 107 | 4 | 32 |
| 2-Chlorophenol | | | 200 | 145 | | ug/L | | 73 | 34 - 100 | 3 | 31 |
| 2-Methylphenol | | | 200 | 151 | | ug/L | | 75 | 34 - 101 | 2 | 34 |
| 2,4-Dichlorophenol | | | 200 | 150 | | ug/L | | 75 | 34 - 106 | 1 | 33 |
| 2,4-Dimethylphenol | | | 200 | 149 | | ug/L | | 74 | 34 - 98 | 3 | 34 |
| 2,4-Dinitrophenol | | | 200 | 189 | | ug/L | | 95 | 3 - 125 | 5 | 62 |
| 4,6-Dinitro-2-methylphenol | | | 200 | 174 | | ug/L | | 87 | 24 - 121 | 6 | 50 |
| 2-Nitrophenol | | | 200 | 150 | | ug/L | | 75 | 33 - 108 | 2 | 41 |
| 4-Nitrophenol | | | 200 | 199 | | ug/L | | 99 | 29 - 120 | 2 | 39 |
| Pentachlorophenol | | | 200 | 171 | | ug/L | | 85 | 10 - 118 | 4 | 49 |
| Phenol | | | 200 | 146 | | ug/L | | 73 | 35 - 98 | 3 | 35 |
| 2,4,5-Trichlorophenol | | | 200 | 157 | | ug/L | | 78 | 31 - 111 | 3 | 32 |
| 2,4,6-Trichlorophenol | | | 200 | 151 | | ug/L | | 75 | 34 - 110 | 3 | 35 |
| Methylphenol, 3 & 4 | | | 400 | 324 | | ug/L | | 81 | 34 - 104 | 3 | 34 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *76* | | *37 - 104* |
| *2-Fluorobiphenyl* | *79* | | *35 - 108* |
| *Terphenyl-d14* | *85* | | *25 - 130* |
| *Phenol-d5* | *82* | | *30 - 102* |
| *2-Fluorophenol* | *76* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *84* | | *33 - 122* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45542/1-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 67 | 6.4 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Acetophenone | ND | | 330 | 27 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Acenaphthylene | ND | | 67 | 7.6 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Anthracene | ND | | 67 | 6.5 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[a]anthracene | ND | | 67 | 8.4 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[a]pyrene | ND | | 67 | 6.7 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[b]fluoranthene | ND | | 67 | 10 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[g,h,i]perylene | ND | | 67 | 6.6 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[k]fluoranthene | ND | | 67 | 13 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Bis(2-chloroethyl)ether | ND | | 67 | 9.0 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 330 | 22 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 67 | 7.2 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 670 | 54 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 330 | 29 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Butyl benzyl phthalate | ND | | 330 | 46 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Carbazole | ND | | 67 | 6.1 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Chloroaniline | ND | | 330 | 27 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Chloronaphthalene | ND | | 67 | 7.0 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 330 | 37 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Chrysene | ND | | 67 | 7.9 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Dibenz(a,h)anthracene | ND | | 67 | 7.4 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Dibenzofuran | ND | | 330 | 33 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Di-n-butyl phthalate | ND | | 330 | 42 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 330 | 35 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Diethyl phthalate | ND | | 330 | 36 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Dimethyl phthalate | ND | | 330 | 36 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4-Dinitrotoluene | ND | | 330 | 27 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,6-Dinitrotoluene | ND | | 330 | 34 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Di-n-octyl phthalate | ND | | 330 | 35 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Fluoranthene | ND | | 67 | 7.1 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Fluorene | ND | | 67 | 8.8 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Hexachlorobenzene | ND | | 67 | 7.1 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Hexachlorobutadiene | ND | | 67 | 7.5 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Hexachlorocyclopentadiene | ND | | 330 | 36 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Hexachloroethane | ND | | 330 | 24 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 67 | 6.9 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Isophorone | ND | | 330 | 25 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Methylnaphthalene | ND | | 67 | 6.0 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Naphthalene | ND | | 67 | 5.7 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Nitroaniline | ND | | 1700 | 150 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 3-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Nitrobenzene | ND | | 670 | 28 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 67 | 7.8 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| N-Nitrosodiphenylamine | ND | | 330 | 31 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Phenanthrene | ND | | 67 | 11 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Pyrene | ND | | 67 | 6.7 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Chloro-3-methylphenol | ND | | 330 | 31 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Chlorophenol | ND | | 330 | 27 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45542/1-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | ND | | 330 | 23 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4-Dichlorophenol | ND | | 67 | 6.7 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4-Dimethylphenol | ND | | 330 | 52 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4-Dinitrophenol | ND | | 1700 | 400 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1700 | 130 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Nitrophenol | ND | | 330 | 37 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Nitrophenol | ND | | 1700 | 120 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Pentachlorophenol | ND | | 330 | 30 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Phenol | ND | | 67 | 7.9 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4,5-Trichlorophenol | ND | | 330 | 36 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4,6-Trichlorophenol | ND | | 330 | 50 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 1,1'-Biphenyl | ND | | 330 | 30 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Caprolactam | ND | | 1700 | 250 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzaldehyde | ND | | 330 | 50 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Atrazine | ND | | 330 | 32 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Methylphenol, 3 & 4 | ND | | 330 | 33 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *59* | | *25 - 104* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *2-Fluorobiphenyl* | *58* | | *35 - 105* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *Terphenyl-d14* | *61* | | *25 - 127* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *Phenol-d5* | *66* | | *25 - 105* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *2-Fluorophenol* | *63* | | *39 - 103* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *2,4,6-Tribromophenol* | *52* | | *35 - 124* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |

**Lab Sample ID: LCS 180-45542/2-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2110 | | ug/Kg | | 63 | 47 - 104 |
| Acenaphthylene | 3330 | 2310 | | ug/Kg | | 69 | 49 - 114 |
| Anthracene | 3330 | 2150 | | ug/Kg | | 65 | 45 - 112 |
| Benzo[a]anthracene | 3330 | 2060 | | ug/Kg | | 62 | 47 - 110 |
| Benzo[a]pyrene | 3330 | 2190 | | ug/Kg | | 66 | 47 - 112 |
| Benzo[b]fluoranthene | 3330 | 1950 | | ug/Kg | | 59 | 41 - 107 |
| Benzo[g,h,i]perylene | 3330 | 2160 | | ug/Kg | | 65 | 38 - 126 |
| Benzo[k]fluoranthene | 3330 | 2220 | | ug/Kg | | 66 | 44 - 115 |
| Bis(2-chloroethyl)ether | 3330 | 2000 | | ug/Kg | | 60 | 38 - 99 |
| Bis(2-chloroethoxy)methane | 3330 | 1970 | | ug/Kg | | 59 | 44 - 101 |
| bis (2-chloroisopropyl) ether | 3330 | 1920 | | ug/Kg | | 58 | 36 - 101 |
| Bis(2-ethylhexyl) phthalate | 3330 | 2020 | | ug/Kg | | 61 | 40 - 122 |
| 4-Bromophenyl phenyl ether | 3330 | 2000 | | ug/Kg | | 60 | 47 - 110 |
| Butyl benzyl phthalate | 3330 | 2040 | | ug/Kg | | 61 | 41 - 118 |
| Carbazole | 3330 | 2170 | | ug/Kg | | 65 | 45 - 114 |
| 4-Chloroaniline | 3330 | 2160 | | ug/Kg | | 65 | 25 - 108 |
| 2-Chloronaphthalene | 3330 | 2100 | | ug/Kg | | 63 | 46 - 101 |
| 4-Chlorophenyl phenyl ether | 3330 | 2210 | | ug/Kg | | 66 | 47 - 109 |
| Chrysene | 3330 | 2230 | | ug/Kg | | 67 | 46 - 111 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45542/2-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | 3330 | 2160 | | ug/Kg | | 65 | 39 - 127 |
| Dibenzofuran | 3330 | 2080 | | ug/Kg | | 63 | 46 - 104 |
| Di-n-butyl phthalate | 3330 | 2170 | | ug/Kg | | 65 | 43 - 121 |
| 3,3'-Dichlorobenzidine | 3330 | 2210 | | ug/Kg | | 66 | 19 - 122 |
| Diethyl phthalate | 3330 | 2220 | | ug/Kg | | 66 | 47 - 115 |
| Dimethyl phthalate | 3330 | 2180 | | ug/Kg | | 65 | 49 - 111 |
| 2,4-Dinitrotoluene | 3330 | 2340 | | ug/Kg | | 70 | 45 - 124 |
| 2,6-Dinitrotoluene | 3330 | 2290 | | ug/Kg | | 69 | 50 - 122 |
| Di-n-octyl phthalate | 3330 | 2080 | | ug/Kg | | 62 | 33 - 129 |
| Fluoranthene | 3330 | 2300 | | ug/Kg | | 69 | 40 - 120 |
| Fluorene | 3330 | 2220 | | ug/Kg | | 67 | 46 - 109 |
| Hexachlorobenzene | 3330 | 2110 | | ug/Kg | | 63 | 47 - 108 |
| Hexachlorobutadiene | 3330 | 1930 | | ug/Kg | | 58 | 43 - 107 |
| Hexachlorocyclopentadiene | 3330 | 2130 | | ug/Kg | | 64 | 23 - 129 |
| Hexachloroethane | 3330 | 1890 | | ug/Kg | | 57 | 37 - 97 |
| Indeno[1,2,3-cd]pyrene | 3330 | 2110 | | ug/Kg | | 63 | 41 - 125 |
| Isophorone | 3330 | 2080 | | ug/Kg | | 62 | 47 - 110 |
| 2-Methylnaphthalene | 3330 | 2010 | | ug/Kg | | 60 | 45 - 100 |
| Naphthalene | 3330 | 2000 | | ug/Kg | | 60 | 43 - 100 |
| 2-Nitroaniline | 3330 | 2050 | | ug/Kg | | 61 | 45 - 117 |
| 3-Nitroaniline | 3330 | 2210 | | ug/Kg | | 66 | 34 - 122 |
| 4-Nitroaniline | 3330 | 2410 | | ug/Kg | | 72 | 38 - 123 |
| Nitrobenzene | 3330 | 1940 | | ug/Kg | | 58 | 43 - 104 |
| N-Nitrosodi-n-propylamine | 3330 | 1980 | | ug/Kg | | 59 | 42 - 107 |
| N-Nitrosodiphenylamine | 3330 | 2160 | | ug/Kg | | 65 | 44 - 111 |
| Phenanthrene | 3330 | 2100 | | ug/Kg | | 63 | 43 - 108 |
| Pyrene | 3330 | 1930 | | ug/Kg | | 58 | 41 - 115 |
| 4-Chloro-3-methylphenol | 3330 | 1940 | | ug/Kg | | 58 | 47 - 109 |
| 2-Chlorophenol | 3330 | 2030 | | ug/Kg | | 61 | 40 - 101 |
| 2-Methylphenol | 3330 | 2010 | | ug/Kg | | 60 | 40 - 104 |
| 2,4-Dichlorophenol | 3330 | 1990 | | ug/Kg | | 60 | 47 - 105 |
| 2,4-Dimethylphenol | 3330 | 1930 | | ug/Kg | | 58 | 44 - 105 |
| 2,4-Dinitrophenol | 3330 | 1770 | | ug/Kg | | 53 | 10 - 146 |
| 4,6-Dinitro-2-methylphenol | 3330 | 1880 | | ug/Kg | | 57 | 24 - 134 |
| 2-Nitrophenol | 3330 | 1960 | | ug/Kg | | 59 | 46 - 106 |
| 4-Nitrophenol | 3330 | 2000 | | ug/Kg | | 60 | 36 - 127 |
| Pentachlorophenol | 3330 | 1550 | | ug/Kg | | 47 | 17 - 122 |
| Phenol | 3330 | 2010 | | ug/Kg | | 60 | 41 - 102 |
| 2,4,5-Trichlorophenol | 3330 | 1980 | | ug/Kg | | 59 | 48 - 108 |
| 2,4,6-Trichlorophenol | 3330 | 2040 | | ug/Kg | | 61 | 50 - 106 |
| Methylphenol, 3 & 4 | 6670 | 4370 | | ug/Kg | | 66 | 42 - 105 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *58* | | *25 - 104* |
| *2-Fluorobiphenyl* | *62* | | *35 - 105* |
| *Terphenyl-d14* | *63* | | *25 - 127* |
| *Phenol-d5* | *64* | | *25 - 105* |
| *2-Fluorophenol* | *57* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *63* | | *35 - 124* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45542/3-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2050 | | ug/Kg | | 62 | 47 - 104 | 3 | 40 |
| Acenaphthylene | 3330 | 2280 | | ug/Kg | | 68 | 49 - 114 | 1 | 38 |
| Anthracene | 3330 | 2140 | | ug/Kg | | 64 | 45 - 112 | 1 | 42 |
| Benzo[a]anthracene | 3330 | 2120 | | ug/Kg | | 64 | 47 - 110 | 3 | 40 |
| Benzo[a]pyrene | 3330 | 2180 | | ug/Kg | | 65 | 47 - 112 | 1 | 42 |
| Benzo[b]fluoranthene | 3330 | 1940 | | ug/Kg | | 58 | 41 - 107 | 0 | 53 |
| Benzo[g,h,i]perylene | 3330 | 2110 | | ug/Kg | | 63 | 38 - 126 | 3 | 43 |
| Benzo[k]fluoranthene | 3330 | 2120 | | ug/Kg | | 64 | 44 - 115 | 4 | 44 |
| Bis(2-chloroethyl)ether | 3330 | 1940 | | ug/Kg | | 58 | 38 - 99 | 3 | 43 |
| Bis(2-chloroethoxy)methane | 3330 | 2040 | | ug/Kg | | 61 | 44 - 101 | 4 | 36 |
| bis (2-chloroisopropyl) ether | 3330 | 1890 | | ug/Kg | | 57 | 36 - 101 | 2 | 41 |
| Bis(2-ethylhexyl) phthalate | 3330 | 2020 | | ug/Kg | | 61 | 40 - 122 | 0 | 41 |
| 4-Bromophenyl phenyl ether | 3330 | 2020 | | ug/Kg | | 61 | 47 - 110 | 1 | 46 |
| Butyl benzyl phthalate | 3330 | 2070 | | ug/Kg | | 62 | 41 - 118 | 1 | 41 |
| Carbazole | 3330 | 2110 | | ug/Kg | | 63 | 45 - 114 | 3 | 36 |
| 4-Chloroaniline | 3330 | 2150 | | ug/Kg | | 65 | 25 - 108 | 1 | 36 |
| 2-Chloronaphthalene | 3330 | 2040 | | ug/Kg | | 61 | 46 - 101 | 3 | 40 |
| 4-Chlorophenyl phenyl ether | 3330 | 2170 | | ug/Kg | | 65 | 47 - 109 | 2 | 39 |
| Chrysene | 3330 | 2150 | | ug/Kg | | 65 | 46 - 111 | 4 | 39 |
| Dibenz(a,h)anthracene | 3330 | 2140 | | ug/Kg | | 64 | 39 - 127 | 1 | 45 |
| Dibenzofuran | 3330 | 2070 | | ug/Kg | | 62 | 46 - 104 | 1 | 38 |
| Di-n-butyl phthalate | 3330 | 2150 | | ug/Kg | | 64 | 43 - 121 | 1 | 38 |
| 3,3'-Dichlorobenzidine | 3330 | 2150 | | ug/Kg | | 65 | 19 - 122 | 3 | 40 |
| Diethyl phthalate | 3330 | 2140 | | ug/Kg | | 64 | 47 - 115 | 3 | 38 |
| Dimethyl phthalate | 3330 | 2130 | | ug/Kg | | 64 | 49 - 111 | 2 | 37 |
| 2,4-Dinitrotoluene | 3330 | 2200 | | ug/Kg | | 66 | 45 - 124 | 6 | 41 |
| 2,6-Dinitrotoluene | 3330 | 2260 | | ug/Kg | | 68 | 50 - 122 | 2 | 40 |
| Di-n-octyl phthalate | 3330 | 2040 | | ug/Kg | | 61 | 33 - 129 | 2 | 41 |
| Fluoranthene | 3330 | 2230 | | ug/Kg | | 67 | 40 - 120 | 3 | 36 |
| Fluorene | 3330 | 2180 | | ug/Kg | | 65 | 46 - 109 | 2 | 40 |
| Hexachlorobenzene | 3330 | 2170 | | ug/Kg | | 65 | 47 - 108 | 3 | 43 |
| Hexachlorobutadiene | 3330 | 1950 | | ug/Kg | | 58 | 43 - 107 | 1 | 39 |
| Hexachlorocyclopentadiene | 3330 | 2110 | | ug/Kg | | 63 | 23 - 129 | 1 | 49 |
| Hexachloroethane | 3330 | 1850 | | ug/Kg | | 55 | 37 - 97 | 2 | 48 |
| Indeno[1,2,3-cd]pyrene | 3330 | 2080 | | ug/Kg | | 62 | 41 - 125 | 1 | 47 |
| Isophorone | 3330 | 2120 | | ug/Kg | | 64 | 47 - 110 | 2 | 37 |
| 2-Methylnaphthalene | 3330 | 2050 | | ug/Kg | | 62 | 45 - 100 | 2 | 40 |
| Naphthalene | 3330 | 1990 | | ug/Kg | | 60 | 43 - 100 | 1 | 32 |
| 2-Nitroaniline | 3330 | 1960 | | ug/Kg | | 59 | 45 - 117 | 4 | 42 |
| 3-Nitroaniline | 3330 | 2140 | | ug/Kg | | 64 | 34 - 122 | 3 | 39 |
| 4-Nitroaniline | 3330 | 2330 | | ug/Kg | | 70 | 38 - 123 | 3 | 40 |
| Nitrobenzene | 3330 | 1950 | | ug/Kg | | 58 | 43 - 104 | 0 | 33 |
| N-Nitrosodi-n-propylamine | 3330 | 1970 | | ug/Kg | | 59 | 42 - 107 | 0 | 43 |
| N-Nitrosodiphenylamine | 3330 | 2160 | | ug/Kg | | 65 | 44 - 111 | 0 | 40 |
| Phenanthrene | 3330 | 2070 | | ug/Kg | | 62 | 43 - 108 | 2 | 39 |
| Pyrene | 3330 | 2020 | | ug/Kg | | 61 | 41 - 115 | 5 | 43 |
| 4-Chloro-3-methylphenol | 3330 | 1910 | | ug/Kg | | 57 | 47 - 109 | 2 | 36 |
| 2-Chlorophenol | 3330 | 1980 | | ug/Kg | | 59 | 40 - 101 | 2 | 42 |
| 2-Methylphenol | 3330 | 1970 | | ug/Kg | | 59 | 40 - 104 | 2 | 41 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45542/3-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | | | 3330 | 2060 | | ug/Kg | | 62 | 47 - 105 | 3 | 35 |
| 2,4-Dimethylphenol | | | 3330 | 1950 | | ug/Kg | | 59 | 44 - 105 | 1 | 49 |
| 2,4-Dinitrophenol | | | 3330 | 1720 | | ug/Kg | | 52 | 10 - 146 | 3 | 83 |
| 4,6-Dinitro-2-methylphenol | | | 3330 | 1910 | | ug/Kg | | 57 | 24 - 134 | 2 | 87 |
| 2-Nitrophenol | | | 3330 | 2060 | | ug/Kg | | 62 | 46 - 106 | 5 | 39 |
| 4-Nitrophenol | | | 3330 | 1940 | | ug/Kg | | 58 | 36 - 127 | 3 | 43 |
| Pentachlorophenol | | | 3330 | 1550 | | ug/Kg | | 47 | 17 - 122 | 0 | 52 |
| Phenol | | | 3330 | 1930 | | ug/Kg | | 58 | 41 - 102 | 4 | 39 |
| 2,4,5-Trichlorophenol | | | 3330 | 1970 | | ug/Kg | | 59 | 48 - 108 | 0 | 44 |
| 2,4,6-Trichlorophenol | | | 3330 | 2010 | | ug/Kg | | 60 | 50 - 106 | 1 | 42 |
| Methylphenol, 3 & 4 | | | 6670 | 4240 | | ug/Kg | | 64 | 42 - 105 | 3 | 43 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *58* | | *25 - 104* |
| *2-Fluorobiphenyl* | *60* | | *35 - 105* |
| *Terphenyl-d14* | *64* | | *25 - 127* |
| *Phenol-d5* | *61* | | *25 - 105* |
| *2-Fluorophenol* | *57* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *62* | | *35 - 124* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

**Lab Sample ID: MB 180-45444/1-A**
**Matrix: Solid**
**Analysis Batch: 45688**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45444**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/17/12 17:30 | 08/20/12 12:00 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *63* | | *39 - 115* | *08/17/12 17:30* | *08/20/12 12:00* | *1* |
| *2-Fluorobiphenyl* | *55* | | *35 - 115* | *08/17/12 17:30* | *08/20/12 12:00* | *1* |
| *Terphenyl-d14* | *57* | | *30 - 143* | *08/17/12 17:30* | *08/20/12 12:00* | *1* |
| *Phenol-d5* | *69* | | *30 - 118* | *08/17/12 17:30* | *08/20/12 12:00* | *1* |
| *2-Fluorophenol* | *63* | | *20 - 110* | *08/17/12 17:30* | *08/20/12 12:00* | *1* |
| *2,4,6-Tribromophenol* | *53* | | *19 - 138* | *08/17/12 17:30* | *08/20/12 12:00* | *1* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45444/2-A**
**Matrix: Solid**
**Analysis Batch: 45688**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45444**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | | | 0.250 | 0.145 | | mg/L | | 58 | 37 - 115 | | |
| Pyridine | | | 0.250 | 0.153 | | mg/L | | 61 | 22 - 105 | | |
| 2,4-Dinitrotoluene | | | 0.250 | 0.113 | | mg/L | | 45 | 40 - 115 | | |
| Hexachlorobenzene | | | 0.250 | 0.125 | | mg/L | | 50 | 45 - 115 | | |
| Hexachlorobutadiene | | | 0.250 | 0.142 | | mg/L | | 57 | 42 - 115 | | |
| Hexachloroethane | | | 0.250 | 0.149 | | mg/L | | 59 | 25 - 106 | | |
| Nitrobenzene | | | 0.250 | 0.162 | | mg/L | | 65 | 40 - 115 | | |
| 2-Methylphenol | | | 0.250 | 0.152 | | mg/L | | 61 | 43 - 115 | | |
| Pentachlorophenol | | | 0.250 | 0.0867 | J | mg/L | | 35 | 16 - 140 | | |
| 2,4,5-Trichlorophenol | | | 0.250 | 0.133 | | mg/L | | 53 | 35 - 115 | | |
| 2,4,6-Trichlorophenol | | | 0.250 | 0.133 | | mg/L | | 53 | 40 - 115 | | |
| Methylphenol, 3 & 4 | | | 0.500 | 0.319 | | mg/L | | 64 | 30 - 121 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *65* | | *39 - 115* |
| *2-Fluorobiphenyl* | *58* | | *35 - 115* |
| *Terphenyl-d14* | *62* | | *30 - 143* |
| *Phenol-d5* | *69* | | *30 - 118* |
| *2-Fluorophenol* | *65* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *57* | | *19 - 138* |

**Lab Sample ID: LCSD 180-45444/3-A**
**Matrix: Solid**
**Analysis Batch: 45688**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45444**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | | | 0.250 | 0.165 | | mg/L | | 66 | 37 - 115 | 13 | 35 |
| Pyridine | | | 0.250 | 0.164 | | mg/L | | 65 | 22 - 105 | 7 | 40 |
| 2,4-Dinitrotoluene | | | 0.250 | 0.120 | | mg/L | | 48 | 40 - 115 | 6 | 42 |
| Hexachlorobenzene | | | 0.250 | 0.134 | | mg/L | | 53 | 45 - 115 | 7 | 22 |
| Hexachlorobutadiene | | | 0.250 | 0.157 | | mg/L | | 63 | 42 - 115 | 10 | 28 |
| Hexachloroethane | | | 0.250 | 0.165 | | mg/L | | 66 | 25 - 106 | 11 | 38 |
| Nitrobenzene | | | 0.250 | 0.179 | | mg/L | | 72 | 40 - 115 | 10 | 26 |
| 2-Methylphenol | | | 0.250 | 0.165 | | mg/L | | 66 | 43 - 115 | 8 | 47 |
| Pentachlorophenol | | | 0.250 | 0.0906 | J | mg/L | | 36 | 16 - 140 | 4 | 40 |
| 2,4,5-Trichlorophenol | | | 0.250 | 0.146 | | mg/L | | 58 | 35 - 115 | 9 | 40 |
| 2,4,6-Trichlorophenol | | | 0.250 | 0.139 | | mg/L | | 56 | 40 - 115 | 4 | 37 |
| Methylphenol, 3 & 4 | | | 0.500 | 0.360 | | mg/L | | 72 | 30 - 121 | 12 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *72* | | *39 - 115* |
| *2-Fluorobiphenyl* | *63* | | *35 - 115* |
| *Terphenyl-d14* | *69* | | *30 - 143* |
| *Phenol-d5* | *77* | | *30 - 118* |
| *2-Fluorophenol* | *69* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *61* | | *19 - 138* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LB 180-45265/23-B LB**
**Matrix: Solid**
**Analysis Batch: 45688**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45444**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/17/12 17:30 | 08/20/12 13:21 | 1 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *67* | | *39 - 115* | *08/17/12 17:30* | *08/20/12 13:21* | *1* |
| *2-Fluorobiphenyl* | *60* | | *35 - 115* | *08/17/12 17:30* | *08/20/12 13:21* | *1* |
| *Terphenyl-d14* | *67* | | *30 - 143* | *08/17/12 17:30* | *08/20/12 13:21* | *1* |
| *Phenol-d5* | *78* | | *30 - 118* | *08/17/12 17:30* | *08/20/12 13:21* | *1* |
| *2-Fluorophenol* | *70* | | *20 - 110* | *08/17/12 17:30* | *08/20/12 13:21* | *1* |
| *2,4,6-Tribromophenol* | *61* | | *19 - 138* | *08/17/12 17:30* | *08/20/12 13:21* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-247126/3**
**Matrix: Solid**
**Analysis Batch: 247126**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/17/12 11:26 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *90* | | *70 - 131* | | *08/17/12 11:26* | *1* |

**Lab Sample ID: LCS 680-247126/4**
**Matrix: Solid**
**Analysis Batch: 247126**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.627 | * | mg/Kg | | 63 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247126/5**
**Matrix: Solid**
**Analysis Batch: 247126**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.792 | | mg/Kg | | 79 | 64 - 133 | 23 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 131* |

**Lab Sample ID: MB 680-247175/8**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 10:57 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/20/12 10:57* | *1* |

**Lab Sample ID: LCS 680-247175/9**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.198 | | mg/L | | 99 | 70 - 148 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* |

**Lab Sample ID: LCSD 680-247175/2**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.206 | | mg/L | | 103 | 70 - 148 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 130* |

**Lab Sample ID: MB 680-247361/3**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/21/12 11:18 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/21/12 11:18* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCS 680-247361/4**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.967 | | mg/Kg | | 97 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247361/5**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.907 | | mg/Kg | | 91 | 64 - 133 | 6 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

**Lab Sample ID: MB 680-247420/23**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/21/12 19:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/21/12 19:05* | *1* |

**Lab Sample ID: MB 680-247420/3**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 5.0 | 0.38 | mg/Kg | | | 08/21/12 19:25 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* | | *08/21/12 19:25* | *20* |

**Lab Sample ID: LCS 680-247420/5**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.892 | | mg/Kg | | 89 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247420/6**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.996 | | mg/Kg | | 100 | 64 - 133 | 11 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247420/7**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 32.6 | | mg/Kg | | 82 | 64 - 133 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-246466/8-A**
**Matrix: Water**
**Analysis Batch: 247429**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246466**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 08/13/12 15:26 | 08/21/12 21:11 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *88* | | *62 - 130* | *08/13/12 15:26* | *08/21/12 21:11* | *1* |

**Lab Sample ID: LCS 680-246466/9-A**
**Matrix: Water**
**Analysis Batch: 247429**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246466**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 1.00 | 0.558 | | mg/L | | 56 | 25 - 145 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *74* | | *62 - 130* |

**Lab Sample ID: 180-13241-5 MS**
**Matrix: Water**
**Analysis Batch: 247429**

**Client Sample ID: 21W**
**Prep Type: Total/NA**
**Prep Batch: 246466**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.12 | | 0.992 | 0.452 | | mg/L | | 33 | 25 - 145 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 180-13241-5 MS**
**Matrix: Water**
**Analysis Batch: 247429**

**Client Sample ID: 21W**
**Prep Type: Total/NA**
**Prep Batch: 246466**

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 71 | | 62 - 130 |

**Lab Sample ID: 180-13241-5 MSD**
**Matrix: Water**
**Analysis Batch: 247429**

**Client Sample ID: 21W**
**Prep Type: Total/NA**
**Prep Batch: 246466**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.12 | | 1.17 | 0.602 | | mg/L | | 41 | 25 - 145 | 28 | 50 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 91 | | 62 - 130 |

**Lab Sample ID: MB 680-246523/20-A**
**Matrix: Solid**
**Analysis Batch: 247459**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246523**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/14/12 11:27 | 08/21/12 15:29 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 69 | | 56 - 135 | 08/14/12 11:27 | 08/21/12 15:29 | 1 |

**Lab Sample ID: LCS 680-246523/21-A**
**Matrix: Solid**
**Analysis Batch: 247459**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246523**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.2 | 23.5 | | mg/Kg | | 71 | 19 - 171 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 73 | | 56 - 135 |

**Lab Sample ID: MB 680-247576/10-A**
**Matrix: Solid**
**Analysis Batch: 247699**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247576**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/23/12 15:05 | 08/24/12 12:27 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 79 | | 56 - 135 | 08/23/12 15:05 | 08/24/12 12:27 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 680-247576/11-A**
**Matrix: Solid**
**Analysis Batch: 247699**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247576**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 32.9 | 24.7 | | mg/Kg | | 75 | 19 - 171 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *80* | | *56 - 135* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-44616/1-A**
**Matrix: Water**
**Analysis Batch: 45553**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.40 | 0.10 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1221 | ND | | 0.40 | 0.10 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1232 | ND | | 0.40 | 0.12 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1242 | ND | | 0.40 | 0.074 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1248 | ND | | 0.40 | 0.091 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1254 | ND | | 0.40 | 0.092 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1260 | ND | | 0.40 | 0.054 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *96* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 02:45* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *96* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 02:45* | *1* |

**Lab Sample ID: LCS 180-44616/4-A**
**Matrix: Water**
**Analysis Batch: 45553**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 40.0 | 36.4 | | ug/L | | 91 | 60 - 130 | | |
| PCB-1260 | | | 40.0 | 41.2 | | ug/L | | 103 | 60 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *97* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *96* | | *35 - 140* |

**Lab Sample ID: LCSD 180-44616/5-A**
**Matrix: Water**
**Analysis Batch: 45553**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 40.0 | 36.4 | | ug/L | | 91 | 60 - 130 | 0 | 27 |
| PCB-1260 | | | 40.0 | 41.0 | | ug/L | | 103 | 60 - 130 | 0 | 24 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *97* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *95* | | *35 - 140* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 180-45454/1-A**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *82* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 17:18* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 17:18* | *1* |

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 16:21* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 16:21* | *1* |

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46972**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *94* | | *35 - 140* | *08/18/12 05:50* | *08/30/12 11:52* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *78* | | *35 - 140* | *08/18/12 05:50* | *08/30/12 11:52* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 180-45454/2-A**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 1330 | 1020 | | ug/Kg | | 77 | 55 - 130 |
| PCB-1260 | 1330 | 1100 | | ug/Kg | | 83 | 54 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *92* | | *35 - 140* |

**Lab Sample ID: LCS 180-45454/2-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 1330 | 1030 | | ug/Kg | | 77 | 55 - 130 |
| PCB-1260 | 1330 | 1090 | | ug/Kg | | 82 | 54 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 180-44835/1-A**
**Matrix: Water**
**Analysis Batch: 46183**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44835**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 10 | 2.7 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Barium | ND | | 200 | 0.62 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Chromium | ND | | 5.0 | 0.57 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Lead | ND | | 3.0 | 1.3 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |

**Lab Sample ID: LCS 180-44835/2-A**
**Matrix: Water**
**Analysis Batch: 46183**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44835**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 500 | 492 | | ug/L | | 98 | 80 - 120 |
| Barium | 2000 | 1930 | | ug/L | | 96 | 80 - 120 |
| Cadmium | 50.0 | 48.0 | | ug/L | | 96 | 80 - 120 |
| Chromium | 200 | 194 | | ug/L | | 97 | 80 - 120 |
| Lead | 500 | 488 | | ug/L | | 98 | 80 - 120 |
| Selenium | 500 | 486 | | ug/L | | 97 | 80 - 120 |
| Silver | 50.0 | 49.9 | | ug/L | | 100 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 180-44845/1-A**
**Matrix: Solid**
**Analysis Batch: 45042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44845**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 1.0 | 0.22 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Barium | ND | | 20 | 0.050 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Cadmium | ND | | 0.50 | 0.024 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Chromium | ND | | 0.50 | 0.085 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Lead | ND | | 0.30 | 0.15 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Selenium | ND | | 0.50 | 0.21 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Silver | ND | | 0.50 | 0.058 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |

**Lab Sample ID: LCS 180-44845/2-A**
**Matrix: Solid**
**Analysis Batch: 45042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44845**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 50.0 | 48.0 | | mg/Kg | | 96 | 80 - 120 |
| Barium | 200 | 185 | | mg/Kg | | 92 | 80 - 120 |
| Cadmium | 5.00 | 4.61 | | mg/Kg | | 92 | 80 - 120 |
| Chromium | 20.0 | 18.6 | | mg/Kg | | 93 | 80 - 120 |
| Lead | 50.0 | 47.1 | | mg/Kg | | 94 | 80 - 120 |
| Selenium | 50.0 | 49.0 | | mg/Kg | | 98 | 80 - 120 |
| Silver | 5.00 | 4.63 | | mg/Kg | | 93 | 80 - 120 |

**Lab Sample ID: MB 180-45562/1-A**
**Matrix: Solid**
**Analysis Batch: 45878**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45562**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/20/12 10:45 | 08/21/12 20:19 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 08/20/12 10:45 | 08/21/12 20:19 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/20/12 10:45 | 08/21/12 20:19 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/20/12 10:45 | 08/21/12 20:19 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/20/12 10:45 | 08/21/12 20:19 | 1 |
| Selenium | ND | | 0.050 | 0.0030 | mg/L | | 08/20/12 10:45 | 08/21/12 20:19 | 1 |
| Silver | 0.000870 | J | 0.050 | 0.00068 | mg/L | | 08/20/12 10:45 | 08/21/12 20:19 | 1 |

**Lab Sample ID: LCS 180-45562/2-A**
**Matrix: Solid**
**Analysis Batch: 45878**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45562**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.500 | 0.536 | | mg/L | | 107 | 80 - 120 |
| Barium | 2.00 | 1.99 | | mg/L | | 100 | 80 - 120 |
| Cadmium | 0.0500 | 0.0505 | | mg/L | | 101 | 80 - 120 |
| Chromium | 0.200 | 0.205 | | mg/L | | 103 | 80 - 120 |
| Lead | 0.500 | 0.509 | | mg/L | | 102 | 80 - 120 |
| Selenium | 0.500 | 0.548 | | mg/L | | 110 | 80 - 120 |
| Silver | 0.0500 | 0.0532 | | mg/L | | 106 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB 180-45265/23-F LB**
**Matrix: Solid**
**Analysis Batch: 45878**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45562**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/20/12 10:45 | 08/21/12 20:25 | 1 |
| Barium | 0.00157 | J | 0.20 | 0.00062 | mg/L | | 08/20/12 10:45 | 08/21/12 20:25 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/20/12 10:45 | 08/21/12 20:25 | 1 |
| Chromium | 0.00119 | J | 0.050 | 0.00057 | mg/L | | 08/20/12 10:45 | 08/21/12 20:25 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/20/12 10:45 | 08/21/12 20:25 | 1 |
| Selenium | 0.00510 | J | 0.050 | 0.0030 | mg/L | | 08/20/12 10:45 | 08/21/12 20:25 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/20/12 10:45 | 08/21/12 20:25 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-45579/1-A**
**Matrix: Solid**
**Analysis Batch: 45650**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45579**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/20/12 11:22 | 08/20/12 16:46 | 1 |

**Lab Sample ID: LCS 180-45579/2-A**
**Matrix: Solid**
**Analysis Batch: 45650**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45579**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00239 | | mg/L | | 96 | 80 - 120 |

**Lab Sample ID: MB 180-46023/1-A**
**Matrix: Water**
**Analysis Batch: 46130**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46023**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/23/12 08:54 | 08/23/12 13:15 | 1 |

**Lab Sample ID: LCS 180-46023/2-A**
**Matrix: Water**
**Analysis Batch: 46130**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46023**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.50 | 2.38 | | ug/L | | 95 | 80 - 120 |

**Lab Sample ID: LB 180-45265/23-G LB**
**Matrix: Solid**
**Analysis Batch: 45650**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45579**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/20/12 11:22 | 08/20/12 16:50 | 1 |

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 180-45987/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46059** — **Prep Batch: 45987**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.033 | 0.011 | mg/Kg | | 08/23/12 02:59 | 08/23/12 08:37 | 1 |

**Lab Sample ID: LCS 180-45987/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46059** — **Prep Batch: 45987**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.417 | 0.405 | | mg/Kg | | 97 | 80 - 120 |

## Method: 1020B - Ignitability, Small Scale Closed-Cup Method

**Lab Sample ID: 180-13241-11 DU** — **Client Sample ID: 23W@2-4'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45883**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Ignitability | >140 | | >140 | | Degrees F | | NC | 20 |
| Flashpoint | >140 | | >140 | | Degrees F | | NC | 20 |

## Method: 1664A - HEM and SGT-HEM

**Lab Sample ID: MB 180-46415/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46462** — **Prep Batch: 46415**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.0 | 1.5 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |

**Lab Sample ID: LCS 180-46415/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46462** — **Prep Batch: 46415**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 38.3 | | mg/L | | 96 | 78 - 114 |

**Lab Sample ID: LCSD 180-46415/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46462** — **Prep Batch: 46415**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 38.1 | | mg/L | | 95 | 78 - 114 | 1 | 18 |

## Method: 9012A - Cyanide, Total and/or Amenable

**Lab Sample ID: MB 180-45569/5-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45615** — **Prep Batch: 45569**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.50 | 0.097 | mg/Kg | | 08/20/12 10:35 | 08/20/12 12:26 | 1 |

## Method: 9012A - Cyanide, Total and/or Amenable (Continued)

**Lab Sample ID: HLCS 180-45569/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45615** — **Prep Batch: 45569**

| Analyte | Spike Added | HLCS Result | HLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.250 | 0.240 | | mg/Kg | | 96 | 90 - 110 |

**Lab Sample ID: LCS 180-45569/3-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45615** — **Prep Batch: 45569**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 28.1 | 27.7 | | mg/Kg | | 98 | 38 - 162 |

**Lab Sample ID: LCSD 180-45569/4-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45615** — **Prep Batch: 45569**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 28.1 | 27.2 | | mg/Kg | | 97 | 38 - 162 | 2 | 20 |

**Lab Sample ID: LLCS 180-45569/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45615** — **Prep Batch: 45569**

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.0500 | 0.0474 | | mg/Kg | | 95 | 90 - 110 |

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 680-247213/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 247217** — **Prep Batch: 247213**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/20/12 08:27 | 08/20/12 15:58 | 1 |

**Lab Sample ID: LCS 680-247213/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 247217** — **Prep Batch: 247213**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.0917 | | mg/L | | 93 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.0917 | | mg/L | | 93 | 60 - 140 |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-16979/3-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 16986** — **Prep Batch: 16979**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 10 | 7.0 | mg/Kg | | 08/31/12 07:18 | 08/31/12 07:18 | 1 |

## Method: 9023 - Organic Halides, Extractable (EOX) (Continued)

**Lab Sample ID: LCS 490-16979/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 16986** — **Prep Batch: 16979**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1010 | ^ | mg/Kg | | 97 | 90 - 110 |

**Lab Sample ID: LCSD 490-16979/2-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 16986** — **Prep Batch: 16979**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1020 | ^ | mg/Kg | | 98 | 90 - 110 | 1 | 20 |

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

**Lab Sample ID: MB 180-44695/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 44696** — **Prep Batch: 44695**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide | ND | | 30 | 6.0 | mg/Kg | | 08/11/12 15:42 | 08/11/12 15:51 | 1 |

**Lab Sample ID: LCS 180-44695/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 44696** — **Prep Batch: 44695**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfide | 192 | 178 | | mg/Kg | | 93 | 85 - 115 |

## Method: 9045C - pH

**Lab Sample ID: LCS 180-45258/1** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45258**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| pH | 7.00 | 6.960 | | SU | | 99 | 99 - 101 |

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-45998/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46082** — **Prep Batch: 45998**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | ND | | 170 | 23 | mg/Kg | | 08/23/12 05:08 | 08/23/12 05:08 | 1 |

**Lab Sample ID: LCS 180-45998/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46082** — **Prep Batch: 45998**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1170 | | mg/Kg | | 88 | 78 - 114 |

## Method: 9071B - HEM and SGT-HEM (Continued)

**Lab Sample ID: LCSD 180-45998/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46082** — **Prep Batch: 45998**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1180 | | mg/Kg | | 89 | 78 - 114 | 1 | 18 |

**Lab Sample ID: MB 180-46666/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46770** — **Prep Batch: 46666**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 30.0 | J | 170 | 23 | mg/Kg | | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

**Lab Sample ID: LCS 180-46666/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46770** — **Prep Batch: 46666**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1160 | | mg/Kg | | 87 | 78 - 114 | | |

**Lab Sample ID: LCSD 180-46666/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46770** — **Prep Batch: 46666**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1170 | | mg/Kg | | 88 | 78 - 114 | 1 | 18 |

## Method: Moisture - Percent Moisture

**Lab Sample ID: 180-13241-11 DU** — **Client Sample ID: 23W@2-4'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 44443**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 18 | | | 18 | | % | | | | 2 | 20 |
| Percent Solids | 82 | | | 82 | | % | | | | 0.5 | 20 |

## GC/MS VOA

### Analysis Batch: 44724

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-6 | 22W | Total/NA | Water | 8260B | |
| 180-13241-7 | 24W | Total/NA | Water | 8260B | |
| LCS 180-44724/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-44724/7 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-44724/4 | Method Blank | Total/NA | Water | 8260B | |

### Prep Batch: 45026

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 5030B | |
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 5030B | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 5030B | |
| LCS 180-45026/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| MB 180-45026/1-A | Method Blank | Total/NA | Solid | 5030B | |

### Analysis Batch: 45033

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 8260B | 45026 |
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 8260B | 45026 |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 8260B | 45026 |
| LCS 180-45026/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 45026 |
| MB 180-45026/1-A | Method Blank | Total/NA | Solid | 8260B | 45026 |

### Analysis Batch: 45108

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-5 | 21W | Total/NA | Water | 8260B | |
| 180-13241-8 | TRIP BLANK | Total/NA | Water | 8260B | |
| 180-13241-10 | 26W | Total/NA | Water | 8260B | |
| 180-13241-12 | 23W | Total/NA | Water | 8260B | |
| LCS 180-45108/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 180-45108/3 | Method Blank | Total/NA | Water | 8260B | |

### Prep Batch: 45334

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 5030B | |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 5030B | |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 5030B | |
| LCS 180-45334/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| LCSD 180-45334/3-A | Lab Control Sample Dup | Total/NA | Solid | 5030B | |
| MB 180-45334/1-A | Method Blank | Total/NA | Solid | 5030B | |

### Analysis Batch: 45338

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 8260B | 45334 |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 8260B | 45334 |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 8260B | 45334 |
| LCS 180-45334/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 45334 |
| LCSD 180-45334/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B | 45334 |
| MB 180-45334/1-A | Method Blank | Total/NA | Solid | 8260B | 45334 |

### Leach Batch: 45424

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 1311 | |

## GC/MS VOA (Continued)

### Leach Batch: 45424 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LB 180-45424/9-A LB | Method Blank | TCLP | Solid | 1311 | |

### Analysis Batch: 45519

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 8260B | 45424 |
| LB 180-45424/9-A LB | Method Blank | TCLP | Solid | 8260B | 45424 |
| LCS 180-45519/6 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 180-45519/7 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 44683

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-5 | 21W | Total/NA | Water | 3520C | |
| 180-13241-10 | 26W | Total/NA | Water | 3520C | |
| 180-13241-12 | 23W | Total/NA | Water | 3520C | |
| LCS 180-44683/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 180-44683/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 180-44683/1-A | Method Blank | Total/NA | Water | 3520C | |

### Analysis Batch: 45032

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-5 | 21W | Total/NA | Water | 8270C | 44683 |
| 180-13241-10 | 26W | Total/NA | Water | 8270C | 44683 |
| 180-13241-12 | 23W | Total/NA | Water | 8270C | 44683 |
| LCS 180-44683/2-A | Lab Control Sample | Total/NA | Water | 8270C | 44683 |
| LCSD 180-44683/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C | 44683 |
| MB 180-44683/1-A | Method Blank | Total/NA | Water | 8270C | 44683 |

### Leach Batch: 45265

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 1311 | |
| LB 180-45265/23-B LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 45444

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 3510C | 45265 |
| LB 180-45265/23-B LB | Method Blank | TCLP | Solid | 3510C | 45265 |
| LCS 180-45444/2-A | Lab Control Sample | Total/NA | Solid | 3510C | |
| LCSD 180-45444/3-A | Lab Control Sample Dup | Total/NA | Solid | 3510C | |
| MB 180-45444/1-A | Method Blank | Total/NA | Solid | 3510C | |

### Prep Batch: 45542

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 3541 | |
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 3541 | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 3541 | |
| LCS 180-45542/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 180-45542/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |
| MB 180-45542/1-A | Method Blank | Total/NA | Solid | 3541 | |

## GC/MS Semi VOA (Continued)

### Analysis Batch: 45682

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 8270C | 45542 |
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 8270C | 45542 |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 8270C | 45542 |
| LCS 180-45542/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 45542 |
| LCSD 180-45542/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 45542 |
| MB 180-45542/1-A | Method Blank | Total/NA | Solid | 8270C | 45542 |

### Analysis Batch: 45688

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 8270C | 45444 |
| LB 180-45265/23-B LB | Method Blank | TCLP | Solid | 8270C | 45444 |
| LCS 180-45444/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 45444 |
| LCSD 180-45444/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 45444 |
| MB 180-45444/1-A | Method Blank | Total/NA | Solid | 8270C | 45444 |

## GC VOA

### Analysis Batch: 247126

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 8015B | |
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 8015B | |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 8015B | |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 8015B | |
| LCS 680-247126/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247126/5 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247126/3 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 247175

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-5 | 21W | Total/NA | Water | 8015B | |
| 180-13241-6 | 22W | Total/NA | Water | 8015B | |
| 180-13241-7 | 24W | Total/NA | Water | 8015B | |
| 180-13241-10 | 26W | Total/NA | Water | 8015B | |
| 180-13241-12 | 23W | Total/NA | Water | 8015B | |
| LCS 680-247175/9 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-247175/2 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-247175/8 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 247361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 8015B | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 8015B | |
| LCS 680-247361/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247361/5 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247361/3 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 247420

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 - RA | 21W@2-4' | Total/NA | Solid | 8015B | |
| 180-13241-2 - RA | 22W@2-4' | Total/NA | Solid | 8015B | |
| 180-13241-3 - RA | 24W@2-4' | Total/NA | Solid | 8015B | |
| 180-13241-4 - RA | 80@6-12' | Total/NA | Solid | 8015B | |

## GC VOA (Continued)

### Analysis Batch: 247420 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-247420/5 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247420/6 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| LCSD 680-247420/7 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247420/23 | Method Blank | Total/NA | Solid | 8015B | |
| MB 680-247420/3 | Method Blank | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 44616

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-10 | 26W | Total/NA | Water | 3510C | |
| 180-13241-12 | 23W | Total/NA | Water | 3510C | |
| LCS 180-44616/4-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 180-44616/5-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 180-44616/1-A | Method Blank | Total/NA | Water | 3510C | |

### Prep Batch: 45454

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 3541 | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 3541 | |
| LCS 180-45454/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCS 180-45454/2-C | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-45454/1-A | Method Blank | Total/NA | Solid | 3541 | |
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 45553

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-10 | 26W | Total/NA | Water | 8082 | 44616 |
| 180-13241-12 | 23W | Total/NA | Water | 8082 | 44616 |
| LCS 180-44616/4-A | Lab Control Sample | Total/NA | Water | 8082 | 44616 |
| LCSD 180-44616/5-A | Lab Control Sample Dup | Total/NA | Water | 8082 | 44616 |
| MB 180-44616/1-A | Method Blank | Total/NA | Water | 8082 | 44616 |

### Analysis Batch: 46582

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 8082 | 45454 |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 8082 | 45454 |
| LCS 180-45454/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 45454 |
| LCS 180-45454/2-C | Lab Control Sample | Total/NA | Solid | 8082 | 45454 |
| MB 180-45454/1-A | Method Blank | Total/NA | Solid | 8082 | 45454 |
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 8082 | 45454 |

### Analysis Batch: 46972

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 8082 | 45454 |

### Prep Batch: 246466

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-5 | 21W | Total/NA | Water | 3520C | |
| 180-13241-5 MS | 21W | Total/NA | Water | 3520C | |
| 180-13241-5 MSD | 21W | Total/NA | Water | 3520C | |
| 180-13241-6 | 22W | Total/NA | Water | 3520C | |

## GC Semi VOA (Continued)

### Prep Batch: 246466 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-7 | 24W | Total/NA | Water | 3520C | |
| 180-13241-10 | 26W | Total/NA | Water | 3520C | |
| 180-13241-12 | 23W | Total/NA | Water | 3520C | |
| LCS 680-246466/9-A | Lab Control Sample | Total/NA | Water | 3520C | |
| MB 680-246466/8-A | Method Blank | Total/NA | Water | 3520C | |

### Prep Batch: 246523

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 3546 | |
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 3546 | |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 3546 | |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 3546 | |
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 3546 | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 3546 | |
| LCS 680-246523/21-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-246523/20-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 247429

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 8015B | 246523 |
| 180-13241-5 | 21W | Total/NA | Water | 8015B | 246466 |
| 180-13241-5 MS | 21W | Total/NA | Water | 8015B | 246466 |
| 180-13241-5 MSD | 21W | Total/NA | Water | 8015B | 246466 |
| 180-13241-6 | 22W | Total/NA | Water | 8015B | 246466 |
| 180-13241-7 | 24W | Total/NA | Water | 8015B | 246466 |
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13241-10 | 26W | Total/NA | Water | 8015B | 246466 |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13241-12 | 23W | Total/NA | Water | 8015B | 246466 |
| LCS 680-246466/9-A | Lab Control Sample | Total/NA | Water | 8015B | 246466 |
| MB 680-246466/8-A | Method Blank | Total/NA | Water | 8015B | 246466 |

### Analysis Batch: 247459

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-246523/21-A | Lab Control Sample | Total/NA | Solid | 8015B | 246523 |
| MB 680-246523/20-A | Method Blank | Total/NA | Solid | 8015B | 246523 |

### Prep Batch: 247576

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 - RE | 21W@2-4' | Total/NA | Solid | 3546 | |
| 180-13241-9 - RE | 26W@2-4' | Total/NA | Solid | 3546 | |
| LCS 680-247576/11-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-247576/10-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 247699

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-247576/11-A | Lab Control Sample | Total/NA | Solid | 8015B | 247576 |
| MB 680-247576/10-A | Method Blank | Total/NA | Solid | 8015B | 247576 |

## GC Semi VOA (Continued)

### Analysis Batch: 247753

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 - RE | 21W@2-4' | Total/NA | Solid | 8015B | 247576 |
| 180-13241-9 - RE | 26W@2-4' | Total/NA | Solid | 8015B | 247576 |

## Metals

### Prep Batch: 44835

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-10 | 26W | Total/NA | Water | 3010A | |
| 180-13241-12 | 23W | Total/NA | Water | 3010A | |
| LCS 180-44835/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| MB 180-44835/1-A | Method Blank | Total/NA | Water | 3010A | |

### Prep Batch: 44845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 3050B | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 3050B | |
| LCS 180-44845/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 180-44845/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 45042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 6010B | 44845 |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 6010B | 44845 |
| LCS 180-44845/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 44845 |
| MB 180-44845/1-A | Method Blank | Total/NA | Solid | 6010B | 44845 |

### Leach Batch: 45265

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 1311 | |
| LB 180-45265/23-F LB | Method Blank | TCLP | Solid | 1311 | |
| LB 180-45265/23-G LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 45562

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 3010A | 45265 |
| LB 180-45265/23-F LB | Method Blank | TCLP | Solid | 3010A | 45265 |
| LCS 180-45562/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |
| MB 180-45562/1-A | Method Blank | Total/NA | Solid | 3010A | |

### Prep Batch: 45579

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 7470A | 45265 |
| LB 180-45265/23-G LB | Method Blank | TCLP | Solid | 7470A | 45265 |
| LCS 180-45579/2-A | Lab Control Sample | Total/NA | Solid | 7470A | |
| MB 180-45579/1-A | Method Blank | Total/NA | Solid | 7470A | |

### Analysis Batch: 45650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 7470A | 45579 |
| LB 180-45265/23-G LB | Method Blank | TCLP | Solid | 7470A | 45579 |
| LCS 180-45579/2-A | Lab Control Sample | Total/NA | Solid | 7470A | 45579 |
| MB 180-45579/1-A | Method Blank | Total/NA | Solid | 7470A | 45579 |

## Metals (Continued)

### Analysis Batch: 45878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | TCLP | Solid | 6010B | 45562 |
| LB 180-45265/23-F LB | Method Blank | TCLP | Solid | 6010B | 45562 |
| LCS 180-45562/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 45562 |
| MB 180-45562/1-A | Method Blank | Total/NA | Solid | 6010B | 45562 |

### Prep Batch: 45987

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 7471A | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 7471A | |
| LCS 180-45987/2-A | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 180-45987/1-A | Method Blank | Total/NA | Solid | 7471A | |

### Prep Batch: 46023

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-10 | 26W | Total/NA | Water | 7470A | |
| 180-13241-12 | 23W | Total/NA | Water | 7470A | |
| LCS 180-46023/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-46023/1-A | Method Blank | Total/NA | Water | 7470A | |

### Analysis Batch: 46059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 7471A | 45987 |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 7471A | 45987 |
| LCS 180-45987/2-A | Lab Control Sample | Total/NA | Solid | 7471A | 45987 |
| MB 180-45987/1-A | Method Blank | Total/NA | Solid | 7471A | 45987 |

### Analysis Batch: 46130

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-10 | 26W | Total/NA | Water | 7470A | 46023 |
| 180-13241-12 | 23W | Total/NA | Water | 7470A | 46023 |
| LCS 180-46023/2-A | Lab Control Sample | Total/NA | Water | 7470A | 46023 |
| MB 180-46023/1-A | Method Blank | Total/NA | Water | 7470A | 46023 |

### Analysis Batch: 46183

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-10 | 26W | Total/NA | Water | 6010B | 44835 |
| 180-13241-12 | 23W | Total/NA | Water | 6010B | 44835 |
| LCS 180-44835/2-A | Lab Control Sample | Total/NA | Water | 6010B | 44835 |
| MB 180-44835/1-A | Method Blank | Total/NA | Water | 6010B | 44835 |

## General Chemistry

### Prep Batch: 16979

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 9023 | |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 9023 | |
| LCS 490-16979/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| LCSD 490-16979/2-A | Lab Control Sample Dup | Total/NA | Solid | 9023 | |
| MB 490-16979/3-A | Method Blank | Total/NA | Solid | 9023 | |

## General Chemistry (Continued)

### Analysis Batch: 16986

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 9023 | 16979 |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 9023 | 17161 |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 9023 | 16979 |
| LCS 490-16979/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 16979 |
| LCSD 490-16979/2-A | Lab Control Sample Dup | Total/NA | Solid | 9023 | 16979 |
| MB 490-16979/3-A | Method Blank | Total/NA | Solid | 9023 | 16979 |

### Prep Batch: 17161

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 9023 | |

### Analysis Batch: 44443

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | Moisture | |
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | Moisture | |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | Moisture | |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | Moisture | |
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | Moisture | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | Moisture | |
| 180-13241-11 DU | 23W@2-4' | Total/NA | Solid | Moisture | |

### Prep Batch: 44695

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 9030B | |
| LCS 180-44695/2-A | Lab Control Sample | Total/NA | Solid | 9030B | |
| MB 180-44695/1-A | Method Blank | Total/NA | Solid | 9030B | |

### Analysis Batch: 44696

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 9034 | 44695 |
| LCS 180-44695/2-A | Lab Control Sample | Total/NA | Solid | 9034 | 44695 |
| MB 180-44695/1-A | Method Blank | Total/NA | Solid | 9034 | 44695 |

### Analysis Batch: 45258

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 9045C | |
| LCS 180-45258/1 | Lab Control Sample | Total/NA | Solid | 9045C | |

### Prep Batch: 45569

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 9012A | |
| HLCS 180-45569/2-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| LCS 180-45569/3-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| LCSD 180-45569/4-A | Lab Control Sample Dup | Total/NA | Solid | 9012A | |
| LLCS 180-45569/1-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| MB 180-45569/5-A | Method Blank | Total/NA | Solid | 9012A | |

### Analysis Batch: 45615

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 9012A | 45569 |
| HLCS 180-45569/2-A | Lab Control Sample | Total/NA | Solid | 9012A | 45569 |
| LCS 180-45569/3-A | Lab Control Sample | Total/NA | Solid | 9012A | 45569 |

## General Chemistry (Continued)

### Analysis Batch: 45615 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSD 180-45569/4-A | Lab Control Sample Dup | Total/NA | Solid | 9012A | 45569 |
| LLCS 180-45569/1-A | Lab Control Sample | Total/NA | Solid | 9012A | 45569 |
| MB 180-45569/5-A | Method Blank | Total/NA | Solid | 9012A | 45569 |

### Analysis Batch: 45883

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 1020B | |
| 180-13241-11 DU | 23W@2-4' | Total/NA | Solid | 1020B | |

### Prep Batch: 45998

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 9071B | |
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 9071B | |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 9071B | |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 9071B | |
| LCS 180-45998/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-45998/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-45998/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Analysis Batch: 46082

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-1 | 21W@2-4' | Total/NA | Solid | 9071B | 45998 |
| 180-13241-2 | 22W@2-4' | Total/NA | Solid | 9071B | 45998 |
| 180-13241-3 | 24W@2-4' | Total/NA | Solid | 9071B | 45998 |
| 180-13241-4 | 80@6-12' | Total/NA | Solid | 9071B | 45998 |
| LCS 180-45998/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 45998 |
| LCSD 180-45998/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 45998 |
| MB 180-45998/1-A | Method Blank | Total/NA | Solid | 9071B | 45998 |

### Prep Batch: 46415

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-5 | 21W | Total/NA | Water | 1664A | |
| 180-13241-6 | 22W | Total/NA | Water | 1664A | |
| 180-13241-7 | 24W | Total/NA | Water | 1664A | |
| 180-13241-10 | 26W | Total/NA | Water | 1664A | |
| 180-13241-12 | 23W | Total/NA | Water | 1664A | |
| LCS 180-46415/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-46415/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-46415/1-A | Method Blank | Total/NA | Water | 1664A | |

### Analysis Batch: 46462

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-5 | 21W | Total/NA | Water | 1664A | 46415 |
| 180-13241-6 | 22W | Total/NA | Water | 1664A | 46415 |
| 180-13241-7 | 24W | Total/NA | Water | 1664A | 46415 |
| 180-13241-10 | 26W | Total/NA | Water | 1664A | 46415 |
| 180-13241-12 | 23W | Total/NA | Water | 1664A | 46415 |
| LCS 180-46415/2-A | Lab Control Sample | Total/NA | Water | 1664A | 46415 |
| LCSD 180-46415/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 46415 |
| MB 180-46415/1-A | Method Blank | Total/NA | Water | 1664A | 46415 |

## General Chemistry (Continued)

### Prep Batch: 46666

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 9071B | |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 9071B | |
| LCS 180-46666/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-46666/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-46666/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Analysis Batch: 46770

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-9 | 26W@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13241-11 | 23W@2-4' | Total/NA | Solid | 9071B | 46666 |
| LCS 180-46666/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 46666 |
| LCSD 180-46666/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 46666 |
| MB 180-46666/1-A | Method Blank | Total/NA | Solid | 9071B | 46666 |

### Prep Batch: 247213

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-6 | 22W | Total/NA | Water | Carbon Trap | |
| 180-13241-7 | 24W | Total/NA | Water | Carbon Trap | |
| LCS 680-247213/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-247213/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 247217

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13241-6 | 22W | Total/NA | Water | 9020B | 247213 |
| 180-13241-7 | 24W | Total/NA | Water | 9020B | 247213 |
| LCS 680-247213/2-A | Lab Control Sample | Total/NA | Water | 9020B | 247213 |
| MB 680-247213/1-A | Method Blank | Total/NA | Water | 9020B | 247213 |

Temp 2.6 +1 CF 2.7 3.0 +1 CF 3.1 Temp 2.3 +1 CF 2.4 Air Thermistor 5.9, 5.8 A12 180-13241

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | 1 of 2 COCs |
| City/State/Zip: Mechanicsville VA 23116 | Email: dfraser@eee-consulting.com | Analysis Turnaround Time (In BUS days) TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No. |
| Phone: 804-442-3330 | | | | |
| Project Name: 12-074 MLK MTT DT | Method of Shipment/Carrier: Courier | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

Analyses

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite-C / Grab-G | Oil & Grease | DRO | GRO | VOCs 8260B | SVOCs 8270C | BTEX | EOX | PCBs | Metals | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21W@ 2-4' | 8/6 | 12:30pm | | | | X | | | | | | | | | | | X | X | X | X | X | | | | | |
| 22W@ 2-4' | | 1:30pm | | | | X | | | | | | | | | | | X | X | X | | | X | X | | | |
| 24W@ 2-4' | | 3pm | | | | X | | | | | | | | | | | X | X | X | | | X | X | | | |
| 80@ 6-12" | | 3pm | | | | X | | | | | | | | | | | X | X | X | | | X | X | | | |
| 21W | | 1:00pm | | X | | | | X | | X | | | | | | | X | X | X | X | X | | | | | |
| 22W | | 1:50pm | | X | | | | X | | X | | | | | | | X | X | X | | | X | X | | | |
| 24W | 8/6 | 4pm | | X | | | | X | | X | | | | | | | X | X | X | | | X | X | | | |
| Trip Blank | | | | X | | | | | | X | | | | | | | | | | X | | | | | | |
| 26W@2-4' | 8/7 | 9:00 | | | | X | | | | | | | | | | | X | X | X | X | X | | | X | X | |
| 26W | 8/7 | 9:30 | | X | | | | X | | X | | | | | | | X | X | X | X | X | | | X | X | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| [signature] | EEE | 8/7/12 11:15 | [signature] | TA | 8/7/12 1115 |
| [signature] | TA | 8/7/12 1700 | [signature] | TA Pitt | 8-8-12 1900 |
| | | | | | |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

2.6 +1 2.7 CF 3.0 +13.1 CF #3 Thermocouple
2.3 +12.4 CF

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd | Telephone: | Telephone: 804-513-8080 | Telephone: | 2 of 2 COCs |
| City/State/Zip: Mech. VA 23116 | Email: | Analysis Turnaround Time (in BUS days) TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No. |
| Phone: 804 442-3330 | | | | |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | | |
| Project Number: 12-074 | Shipping/Tracking No: Courier | | | |
| PO# 12-074 | | | | |

Analyses

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite=C/Grab=G | O.I & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | PCBs | METALS | TCLP ~~FOR~~ FULL | ~~TCLP Full~~ | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23W@2-4' | 8/7 | 10:30 | | | | X | | | | | | | | | | | X | X | X | X | | X | X | X | | |
| 23W | 8/7 | 10:45 | | X | | | | X | X | X | | | | | | | X | X | X | X | | X | X | | | |

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Paul Leeger | EEE | 8/7/12 11:15 | Steve Gun | TA | 8/7/12 1115 |
| Steve Gun | TA | 8/7/12 1700 | [illegible] | TA Pits | 8-8-12 9:00 |
| | | | Received in Laboratory by: | | |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)



9/27/2012

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13241-1

**Login Number: 13241**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13241-1

**Login Number: 13241**
**List Number: 1**
**Creator: Conner, Keaton**

**List Source: TestAmerica Savannah**
**List Creation: 08/11/12 01:32 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | N/A | |
| 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | N/A | |
| Samples do not require splitting or compositing. | N/A | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13260-1
Client Project/Site: Midtown Tunnel (MTT-MLK)

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

Veronica Bortot

*Authorized for release by:*
*9/6/2012 11:29:28 AM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 5
Certification Summary . . . . . 6
Sample Summary . . . . . 9
Method Summary . . . . . 10
Client Sample Results . . . . . 11
QC Sample Results . . . . . 25
QC Association . . . . . 58
Chain of Custody . . . . . 66
Receipt Checklists . . . . . 67

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

## Job ID: 180-13260-1

### Laboratory: TestAmerica Pittsburgh

**Narrative**

**Job Narrative**
**180-13260-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/9/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

**GC/MS VOA**
Method(s) 8260B: The laboratory control sample (LCSD) for batch 45239 exceeded control limits for the following analytes: 1,2,4-trichlorobenzene, 2-hexanone, & Acetone.

Method(s) 8260B: The following sample(s) was analyzed outside of analytical holding time due to Analyst error (Oversight).180-13260-1, 180-13260-4, 180-13260-5, 180-13260-6.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 46006 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 46006 was outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

No other analytical or quality issues were noted.

**GC/MS Semi VOA**
Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: 180-13260-2. Elevated reporting limits (RLs) are provided.

Method(s) 8270C: Surrogate recovery for the following sample(s) was outside control limits: 180-13260-2. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed. Sample was analyzed at a 10x dilution.

No other analytical or quality issues were noted.

**GC VOA**
Method(s) 8015B: The laboratory control sample (LCS) for batch 247126 exceeded control limits for the following analytes: GRO. The associated samples were re-analyzed outside holding time. Both sets of data have been reported.

No other analytical or quality issues were noted.

**GC Semi VOA**
Method(s) 8015B: The following samples needs to be re-digested/re-extracted due to poor recovering surrogate: 180-13260-2, 180-13260-4, 180-13260-5.

Method(s) 8015B: Reprep of the following sample(s) was performed outside of the prepratory holding time: 180-13260-2, 180-13260-4, 180-13260-5.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13260-2. Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. the target recoveries in the reextract appear higher than the original run.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13260-2. Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. The target recoveries in the reextract appear higher than the original run.

## Job ID: 180-13260-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13260-4, 180-13260-5. Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13260-4, 180-13260-5. Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

No other analytical or quality issues were noted.

**Metals**
No analytical or quality issues were noted.

**General Chemistry**
No analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

**VOA Prep**
No analytical or quality issues were noted.

**Narrative**

**Job Narrative**
**180-13260-2**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/9/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| H | Sample was prepped or analyzed beyond the specified holding time |
| * | 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. |
| * | RPD of the LCS and LCSD exceeds the control limits |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| 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

| Qualifier | Qualifier Description |
|---|---|
| p | The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate is outside control limits |
| H | Sample was prepped or analyzed beyond the specified holding time |
| F | MS or MSD exceeds the control limits |
| F | RPD of the MS and MSD exceeds the control limits |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| ^ | ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-12 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-12 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Solid | 08/07/12 11:45 | 08/09/12 09:00 |
| 180-13260-2 | 07W@1-3' | Solid | 08/07/12 02:30 | 08/09/12 09:00 |
| 180-13260-3 | 07W | Water | 08/07/12 03:00 | 08/09/12 09:00 |
| 180-13260-4 | 03@2-4' | Solid | 08/07/12 03:45 | 08/09/12 09:00 |
| 180-13260-5 | 05@2-4' | Solid | 08/07/12 04:00 | 08/09/12 09:00 |
| 180-13260-6 | 68W@2-4' | Solid | 08/07/12 12:45 | 08/09/12 09:00 |
| 180-13260-7 | 68W | Water | 08/07/12 01:15 | 08/09/12 09:00 |
| 180-13260-8 | TRIP BLANK | Water | 08/07/12 00:00 | 08/09/12 09:00 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 8081A | Organochlorine Pesticides (GC) | SW846 | TAL PIT |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |
| 8151A | Herbicides (GC) | SW846 | TAL PIT |
| 6010B | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |
| 7471A | Mercury (CVAA) | SW846 | TAL PIT |
| 1664A | HEM and SGT-HEM | 1664A | TAL PIT |
| 9020B | Organic Halides, Total (TOX) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Client Sample ID: 13@2-4'

**Date Collected: 08/07/12 11:45**
**Date Received: 08/09/12 09:00**

## Lab Sample ID: 180-13260-1

**Matrix: Solid**
**Percent Solids: 85.3**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | H | 5.9 | 0.79 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:02 | 1 |
| Toluene | ND | H | 5.9 | 0.85 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:02 | 1 |
| Ethylbenzene | ND | H | 5.9 | 0.75 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:02 | 1 |
| Xylenes, Total | ND | H | 18 | 2.6 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *72* | | *52 - 124* | *08/23/12 03:48* | *08/23/12 08:02* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *72 - 127* | *08/23/12 03:48* | *08/23/12 08:02* | *1* |
| *4-Bromofluorobenzene (Surr)* | *82* | | *63 - 120* | *08/23/12 03:48* | *08/23/12 08:02* | *1* |
| *Dibromofluoromethane (Surr)* | *87* | | *68 - 121* | *08/23/12 03:48* | *08/23/12 08:02* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/21/12 13:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *102* | | *70 - 131* | | *08/21/12 13:54* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **3.9** | | 3.8 | 2.4 | mg/Kg | ☼ | 08/14/12 11:27 | 08/22/12 00:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *69* | | *56 - 135* | *08/14/12 11:27* | *08/22/12 00:55* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 12 | 8.2 | mg/Kg | ☼ | 08/31/12 07:18 | 09/01/12 15:04 | 1 |
| **HEM** | **58** | **J B** | 190 | 27 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **15** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |
| **Percent Solids** | **85** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |

## Client Sample ID: 07W@1-3'

**Date Collected: 08/07/12 02:30**
**Date Received: 08/09/12 09:00**

## Lab Sample ID: 180-13260-2

**Matrix: Solid**
**Percent Solids: 79.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 13000 | 3100 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| **Benzene** | **640** | **J** | 3100 | 620 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Bromodichloromethane | ND | | 3100 | 580 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Bromoform | ND | | 3100 | 670 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Bromomethane | ND | | 3100 | 990 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 2-Butanone (MEK) | ND | | 3100 | 680 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Carbon disulfide | ND | | 3100 | 670 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Carbon tetrachloride | ND | | 3100 | 680 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Chlorobenzene | ND | | 3100 | 330 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Chloroethane | ND | | 3100 | 470 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Chloroform | ND | | 3100 | 630 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Chloromethane | ND | | 3100 | 870 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |

**Client Sample ID: 07W@1-3'**
**Date Collected: 08/07/12 02:30**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-2**
**Matrix: Solid**
**Percent Solids: 79.6**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | ND | | 3100 | 410 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,1-Dichloroethane | ND | | 3100 | 640 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,2-Dichloroethane | ND | | 3100 | 600 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,1-Dichloroethene | ND | | 3100 | 670 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,2-Dichloropropane | ND | | 3100 | 800 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| cis-1,3-Dichloropropene | ND | | 3100 | 460 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| trans-1,3-Dichloropropene | ND | | 3100 | 370 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| **Ethylbenzene** | **8200** | | 3100 | 390 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 2-Hexanone | ND | | 3100 | 360 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Methylene Chloride | ND | | 3100 | 680 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 3100 | 370 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Styrene | ND | | 3100 | 400 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | 3100 | 590 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Tetrachloroethene | ND | | 3100 | 520 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,1,1-Trichloroethane | ND | | 3100 | 650 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,1,2-Trichloroethane | ND | | 3100 | 730 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Trichloroethene | ND | | 3100 | 500 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Vinyl chloride | ND | | 3100 | 810 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| **Xylenes, Total** | **44000** | | 9400 | 1200 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Cyclohexane | ND | | 3100 | 370 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,2-Dibromo-3-Chloropropane | ND | * | 3100 | 220 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,2-Dibromoethane (EDB) | ND | | 3100 | 380 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Dichlorodifluoromethane | ND | | 3100 | 400 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| cis-1,2-Dichloroethene | ND | | 3100 | 420 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| trans-1,2-Dichloroethene | ND | | 3100 | 470 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| **Isopropylbenzene** | **660** | **J** | 3100 | 330 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Methyl acetate | ND | | 3100 | 770 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| **Methylcyclohexane** | **370** | **J** | 3100 | 350 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Methyl tert-butyl ether | ND | | 3100 | 640 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| Trichlorofluoromethane | ND | | 3100 | 700 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3100 | 210 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,2-Dichlorobenzene | ND | | 3100 | 430 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,3-Dichlorobenzene | ND | | 3100 | 320 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,4-Dichlorobenzene | ND | | 3100 | 330 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| 1,2,4-Trichlorobenzene | ND | * | 3100 | 240 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |
| **Toluene** | **6800** | | 3100 | 530 | ug/Kg | ☼ | 08/20/12 15:38 | 08/21/12 14:11 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *57* | | *52 - 124* | *08/20/12 15:38* | *08/21/12 14:11* | *10* |
| *Toluene-d8 (Surr)* | *119* | | *72 - 127* | *08/20/12 15:38* | *08/21/12 14:11* | *10* |
| *4-Bromofluorobenzene (Surr)* | *78* | | *63 - 120* | *08/20/12 15:38* | *08/21/12 14:11* | *10* |
| *Dibromofluoromethane (Surr)* | *74* | | *68 - 121* | *08/20/12 15:38* | *08/21/12 14:11* | *10* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 840 | 80 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Acetophenone | ND | | 4100 | 340 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Acenaphthylene | ND | | 840 | 95 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Anthracene | ND | | 840 | 81 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Benzo[a]anthracene | ND | | 840 | 100 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Benzo[a]pyrene | ND | | 840 | 83 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

**Client Sample ID: 07W@1-3'**
**Date Collected: 08/07/12 02:30**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-2**
**Matrix: Solid**
**Percent Solids: 79.6**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[b]fluoranthene | ND | | 840 | 130 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Benzo[g,h,i]perylene | ND | | 840 | 83 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Benzo[k]fluoranthene | ND | | 840 | 170 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Bis(2-chloroethyl)ether | ND | | 840 | 110 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Bis(2-chloroethoxy)methane | ND | | 4100 | 270 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| bis (2-chloroisopropyl) ether | ND | | 840 | 90 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Bis(2-ethylhexyl) phthalate | ND | | 8400 | 670 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 4-Bromophenyl phenyl ether | ND | | 4100 | 360 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Butyl benzyl phthalate | ND | | 4100 | 570 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Carbazole | ND | | 840 | 77 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 4-Chloroaniline | ND | | 4100 | 330 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2-Chloronaphthalene | ND | | 840 | 87 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 4-Chlorophenyl phenyl ether | ND | | 4100 | 460 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Chrysene | ND | | 840 | 99 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Dibenz(a,h)anthracene | ND | | 840 | 93 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Dibenzofuran | ND | | 4100 | 410 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Di-n-butyl phthalate | ND | | 4100 | 520 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 3,3'-Dichlorobenzidine | ND | | 4100 | 440 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Diethyl phthalate | ND | | 4100 | 450 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Dimethyl phthalate | ND | | 4100 | 450 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2,4-Dinitrotoluene | ND | | 4100 | 340 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2,6-Dinitrotoluene | ND | | 4100 | 430 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Di-n-octyl phthalate | ND | | 4100 | 440 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Fluoranthene | ND | | 840 | 89 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Fluorene | ND | | 840 | 110 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Hexachlorobenzene | ND | | 840 | 89 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Hexachlorobutadiene | ND | | 840 | 93 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Hexachlorocyclopentadiene | ND | | 4100 | 450 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Hexachloroethane | ND | | 4100 | 300 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Indeno[1,2,3-cd]pyrene | ND | | 840 | 86 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Isophorone | ND | | 4100 | 310 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| **2-Methylnaphthalene** | **1000** | | 840 | 75 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| **Naphthalene** | **1700** | | 840 | 72 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2-Nitroaniline | ND | | 21000 | 1900 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 3-Nitroaniline | ND | | 21000 | 1700 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 4-Nitroaniline | ND | | 21000 | 1700 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Nitrobenzene | ND | | 8400 | 350 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| N-Nitrosodi-n-propylamine | ND | | 840 | 98 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| N-Nitrosodiphenylamine | ND | | 4100 | 390 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Phenanthrene | ND | | 840 | 130 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Pyrene | ND | | 840 | 84 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 4-Chloro-3-methylphenol | ND | | 4100 | 380 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2-Chlorophenol | ND | | 4100 | 340 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2-Methylphenol | ND | | 4100 | 290 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2,4-Dichlorophenol | ND | | 840 | 83 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2,4-Dimethylphenol | ND | | 4100 | 650 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2,4-Dinitrophenol | ND | | 21000 | 5000 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 4,6-Dinitro-2-methylphenol | ND | | 21000 | 1700 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2-Nitrophenol | ND | | 4100 | 460 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 4-Nitrophenol | ND | | 21000 | 1500 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Pentachlorophenol | ND | | 4100 | 370 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |

**Client Sample ID: 07W@1-3'**
**Date Collected: 08/07/12 02:30**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-2**
**Matrix: Solid**
**Percent Solids: 79.6**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenol | ND | | 840 | 98 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2,4,5-Trichlorophenol | ND | | 4100 | 440 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 2,4,6-Trichlorophenol | ND | | 4100 | 620 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| 1,1'-Biphenyl | ND | | 4100 | 370 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Caprolactam | ND | | 21000 | 3100 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Benzaldehyde | ND | | 4100 | 620 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Atrazine | ND | | 4100 | 410 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |
| Methylphenol, 3 & 4 | ND | | 4100 | 410 | ug/Kg | ☼ | 08/20/12 06:10 | 08/20/12 21:30 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *66* | | *25 - 104* | *08/20/12 06:10* | *08/20/12 21:30* | *10* |
| *2-Fluorobiphenyl* | *71* | | *35 - 105* | *08/20/12 06:10* | *08/20/12 21:30* | *10* |
| *Terphenyl-d14* | *76* | | *25 - 127* | *08/20/12 06:10* | *08/20/12 21:30* | *10* |
| *Phenol-d5* | *77* | | *25 - 105* | *08/20/12 06:10* | *08/20/12 21:30* | *10* |
| *2-Fluorophenol* | *71* | | *39 - 103* | *08/20/12 06:10* | *08/20/12 21:30* | *10* |
| *2,4,6-Tribromophenol* | *19* | *X* | *35 - 124* | *08/20/12 06:10* | *08/20/12 21:30* | *10* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **100** | | 31 | 2.4 | mg/Kg | ☼ | | 08/21/12 21:42 | 100 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *85* | | *70 - 131* | | *08/21/12 21:42* | *100* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **190** | | 4.1 | 2.6 | mg/Kg | ☼ | 08/14/12 11:27 | 08/22/12 01:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *53* | *X* | *56 - 135* | *08/14/12 11:27* | *08/22/12 01:08* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **340** | **H** | 4.1 | 2.6 | mg/Kg | ☼ | 08/23/12 15:05 | 08/24/12 15:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *71* | | *56 - 135* | *08/23/12 15:05* | *08/24/12 15:01* | *1* |

### Method: 8081A - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **4,4'-DDD** | **1.8** | **J p** | 11 | 1.4 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| 4,4'-DDE | ND | | 11 | 1.6 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| **4,4'-DDT** | **87** | | 11 | 1.6 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| Aldrin | ND | | 11 | 1.9 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| alpha-BHC | ND | | 11 | 1.7 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| alpha-Chlordane | ND | | 11 | 2.1 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| beta-BHC | ND | | 11 | 2.7 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| delta-BHC | ND | | 11 | 1.6 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| **Dieldrin** | **20** | | 11 | 1.7 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| Endosulfan I | ND | | 11 | 2.0 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| **Endosulfan II** | **10** | **J p** | 11 | 1.8 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| **Endosulfan sulfate** | **26** | **p** | 11 | 1.1 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

**Client Sample ID: 07W@1-3'**
**Date Collected: 08/07/12 02:30**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-2**
**Matrix: Solid**
**Percent Solids: 79.6**

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Endrin** | **4.2** | **J p** | 11 | 2.0 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| Endrin aldehyde | ND | | 11 | 2.0 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| **Endrin ketone** | **18** | **p** | 11 | 1.6 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| gamma-BHC (Lindane) | ND | | 11 | 1.8 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| gamma-Chlordane | ND | | 11 | 2.1 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| Heptachlor | ND | | 11 | 2.3 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| Heptachlor epoxide | ND | | 11 | 2.0 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| **Methoxychlor** | **26** | **p** | 21 | 2.2 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |
| Toxaphene | ND | | 420 | 69 | ug/Kg | ☼ | 08/20/12 07:31 | 08/27/12 17:08 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *52* | | *45 - 130* | *08/20/12 07:31* | *08/27/12 17:08* | *5* |
| *Tetrachloro-m-xylene* | *52* | | *45 - 130* | *08/20/12 07:31* | *08/27/12 17:08* | *5* |
| *DCB Decachlorobiphenyl (Surr)* | *125* | | *45 - 130* | *08/20/12 07:31* | *08/27/12 17:08* | *5* |
| *DCB Decachlorobiphenyl (Surr)* | *127* | | *45 - 130* | *08/20/12 07:31* | *08/27/12 17:08* | *5* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 21 | 3.1 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:38 | 1 |
| PCB-1221 | ND | | 21 | 4.0 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:38 | 1 |
| PCB-1232 | ND | | 21 | 3.6 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:38 | 1 |
| PCB-1242 | ND | | 21 | 3.4 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:38 | 1 |
| PCB-1248 | ND | | 21 | 2.0 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:38 | 1 |
| PCB-1254 | ND | | 21 | 3.0 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:38 | 1 |
| **PCB-1260** | **590** | | 21 | 3.0 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 19:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *64* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 19:38* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *77* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 19:38* | *1* |

## Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | ND | | 100 | 6.9 | ug/Kg | ☼ | 08/18/12 17:23 | 08/30/12 10:06 | 20 |
| 2,4,5-T | ND | | 25 | 3.2 | ug/Kg | ☼ | 08/18/12 17:23 | 08/30/12 10:06 | 20 |
| Silvex (2,4,5-TP) | ND | | 25 | 2.6 | ug/Kg | ☼ | 08/18/12 17:23 | 08/30/12 10:06 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *92* | | *42 - 140* | *08/18/12 17:23* | *08/30/12 09:40* | *20* |
| *2,4-Dichlorophenylacetic acid* | *87* | | *42 - 140* | *08/18/12 17:23* | *08/30/12 10:06* | *20* |

## Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.2** | | 0.96 | 0.21 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:49 | 1 |
| **Barium** | **39** | | 19 | 0.048 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:49 | 1 |
| **Cadmium** | **0.17** | **J** | 0.48 | 0.023 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:49 | 1 |
| **Chromium** | **14** | | 0.48 | 0.081 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:49 | 1 |
| **Lead** | **12** | | 0.29 | 0.14 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:49 | 1 |
| **Selenium** | **0.36** | **J** | 0.48 | 0.20 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:49 | 1 |
| Silver | ND | | 0.48 | 0.056 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:49 | 1 |

## Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.062** | | 0.039 | 0.013 | mg/Kg | ☼ | 08/27/12 15:36 | 08/27/12 20:45 | 1 |

## Client Sample ID: 07W@1-3'

**Lab Sample ID: 180-13260-2**

**Date Collected: 08/07/12 02:30**
**Matrix: Solid**
**Date Received: 08/09/12 09:00**
**Percent Solids: 79.6**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM** | **1300** | **B** | 210 | 29 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **20** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |
| **Percent Solids** | **80** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |

## Client Sample ID: 07W

**Lab Sample ID: 180-13260-3**

**Date Collected: 08/07/12 03:00**
**Matrix: Water**
**Date Received: 08/09/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | * | 20 | 5.0 | ug/L | | | 08/16/12 20:03 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 20:03 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 20:03 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 20:03 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 20:03 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 20:03 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 20:03 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 20:03 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 20:03 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 20:03 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 20:03 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 20:03 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 20:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 20:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 20:03 | 1 |
| **Ethylbenzene** | **1.3** | **J** | 5.0 | 0.62 | ug/L | | | 08/16/12 20:03 | 1 |
| 2-Hexanone | ND | * | 5.0 | 0.57 | ug/L | | | 08/16/12 20:03 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 20:03 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 20:03 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 20:03 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 20:03 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 20:03 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 20:03 | 1 |
| **Xylenes, Total** | **6.4** | **J** | 15 | 2.0 | ug/L | | | 08/16/12 20:03 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 20:03 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 20:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 20:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 20:03 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 20:03 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 20:03 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

**Client Sample ID: 07W**
**Date Collected: 08/07/12 03:00**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-3**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 20:03 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 20:03 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 20:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/16/12 20:03 | 1 |
| **Toluene** | **1.3** | **J** | 5.0 | 0.85 | ug/L | | | 08/16/12 20:03 | 1 |
| **o-Xylene** | **1.6** | **J** | 5.0 | 0.73 | ug/L | | | 08/16/12 20:03 | 1 |
| **m-Xylene & p-Xylene** | **4.8** | **J** | 10 | 1.3 | ug/L | | | 08/16/12 20:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *62 - 123* | | *08/16/12 20:03* | *1* |
| *Toluene-d8 (Surr)* | *115* | | *80 - 120* | | *08/16/12 20:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *79* | | *75 - 120* | | *08/16/12 20:03* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 120* | | *08/16/12 20:03* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Acetophenone | ND | | 9.7 | 0.78 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.7 | 0.56 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.7 | 0.62 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Butyl benzyl phthalate | ND | | 9.7 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 4-Chloroaniline | ND | | 9.7 | 0.86 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.7 | 0.49 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Chrysene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Dibenzofuran | ND | | 9.7 | 0.60 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Di-n-butyl phthalate | ND | | 9.7 | 1.2 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.7 | 1.1 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Diethyl phthalate | ND | | 9.7 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Dimethyl phthalate | ND | | 9.7 | 0.74 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.7 | 0.52 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.7 | 0.77 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Di-n-octyl phthalate | ND | | 9.7 | 2.0 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

**Client Sample ID: 07W**
**Date Collected: 08/07/12 03:00**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-3**
**Matrix: Water**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.7 | 0.50 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Hexachloroethane | ND | | 9.7 | 0.61 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Isophorone | ND | | 9.7 | 0.63 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Naphthalene | ND | | 1.9 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2-Nitroaniline | ND | | 49 | 3.4 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 3-Nitroaniline | ND | | 49 | 3.1 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 4-Nitroaniline | ND | | 49 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Nitrobenzene | ND | | 19 | 0.82 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.7 | 0.83 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.7 | 0.73 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2-Chlorophenol | ND | | 9.7 | 1.6 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2-Methylphenol | ND | | 9.7 | 0.84 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2,4-Dimethylphenol | ND | | 9.7 | 0.83 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2,4-Dinitrophenol | ND | | 49 | 6.0 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 49 | 2.1 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2-Nitrophenol | ND | | 9.7 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 4-Nitrophenol | ND | | 49 | 6.3 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Pentachlorophenol | ND | | 9.7 | 0.64 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.7 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.7 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| 1,1'-Biphenyl | ND | | 9.7 | 0.40 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Caprolactam | ND | | 49 | 12 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Benzaldehyde | ND | | 9.7 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Atrazine | ND | | 9.7 | 0.87 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.7 | 0.88 | ug/L | | 08/11/12 13:59 | 08/14/12 17:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *61* | | *37 - 104* | *08/11/12 13:59* | *08/14/12 17:13* | *1* |
| *2-Fluorobiphenyl* | *62* | | *35 - 108* | *08/11/12 13:59* | *08/14/12 17:13* | *1* |
| *Terphenyl-d14* | *43* | | *25 - 130* | *08/11/12 13:59* | *08/14/12 17:13* | *1* |
| *Phenol-d5* | *68* | | *30 - 102* | *08/11/12 13:59* | *08/14/12 17:13* | *1* |
| *2-Fluorophenol* | *63* | | *26 - 100* | *08/11/12 13:59* | *08/14/12 17:13* | *1* |
| *2,4,6-Tribromophenol* | *57* | | *33 - 122* | *08/11/12 13:59* | *08/14/12 17:13* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.039** | **J** | 0.050 | 0.011 | mg/L | | | 08/20/12 14:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/20/12 14:36* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

**Client Sample ID: 07W**
**Date Collected: 08/07/12 03:00**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-3**
**Matrix: Water**

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.18 | | 0.097 | 0.049 | mg/L | | 08/13/12 15:26 | 08/21/12 23:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *75* | | *62 - 130* | *08/13/12 15:26* | *08/21/12 23:03* | *1* |

## Method: 8081A - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 0.048 | 0.026 | ug/L | | | 08/20/12 22:07 | 1 |
| 4,4'-DDE | ND | | 0.048 | 0.030 | ug/L | | | 08/20/12 22:07 | 1 |
| 4,4'-DDT | ND | | 0.048 | 0.028 | ug/L | | | 08/20/12 22:07 | 1 |
| Aldrin | ND | | 0.048 | 0.032 | ug/L | | | 08/20/12 22:07 | 1 |
| alpha-BHC | ND | | 0.048 | 0.025 | ug/L | | | 08/20/12 22:07 | 1 |
| alpha-Chlordane | ND | | 0.048 | 0.037 | ug/L | | | 08/20/12 22:07 | 1 |
| beta-BHC | ND | | 0.048 | 0.038 | ug/L | | | 08/20/12 22:07 | 1 |
| delta-BHC | ND | | 0.048 | 0.017 | ug/L | | | 08/20/12 22:07 | 1 |
| Dieldrin | ND | | 0.048 | 0.031 | ug/L | | | 08/20/12 22:07 | 1 |
| Endosulfan I | ND | | 0.048 | 0.036 | ug/L | | | 08/20/12 22:07 | 1 |
| Endosulfan II | ND | | 0.048 | 0.037 | ug/L | | | 08/20/12 22:07 | 1 |
| Endosulfan sulfate | ND | | 0.048 | 0.022 | ug/L | | | 08/20/12 22:07 | 1 |
| Endrin | ND | | 0.048 | 0.037 | ug/L | | | 08/20/12 22:07 | 1 |
| Endrin aldehyde | ND | | 0.048 | 0.034 | ug/L | | | 08/20/12 22:07 | 1 |
| Endrin ketone | ND | | 0.048 | 0.035 | ug/L | | | 08/20/12 22:07 | 1 |
| gamma-BHC (Lindane) | ND | | 0.048 | 0.031 | ug/L | | | 08/20/12 22:07 | 1 |
| gamma-Chlordane | ND | | 0.048 | 0.037 | ug/L | | | 08/20/12 22:07 | 1 |
| Heptachlor | ND | | 0.048 | 0.038 | ug/L | | | 08/20/12 22:07 | 1 |
| Heptachlor epoxide | ND | | 0.048 | 0.037 | ug/L | | | 08/20/12 22:07 | 1 |
| Methoxychlor | ND | | 0.095 | 0.035 | ug/L | | | 08/20/12 22:07 | 1 |
| Toxaphene | ND | | 3.8 | 0.71 | ug/L | | | 08/20/12 22:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *63* | | *45 - 130* | | *08/20/12 22:07* | *1* |
| *Tetrachloro-m-xylene* | *65* | | *45 - 130* | | *08/20/12 22:07* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *66* | | *45 - 130* | | *08/20/12 22:07* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *65* | | *45 - 130* | | *08/20/12 22:07* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.096 | ug/L | | 08/10/12 13:00 | 08/18/12 02:21 | 1 |
| PCB-1221 | ND | | 0.38 | 0.095 | ug/L | | 08/10/12 13:00 | 08/18/12 02:21 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 08/10/12 13:00 | 08/18/12 02:21 | 1 |
| PCB-1242 | ND | | 0.38 | 0.071 | ug/L | | 08/10/12 13:00 | 08/18/12 02:21 | 1 |
| PCB-1248 | ND | | 0.38 | 0.087 | ug/L | | 08/10/12 13:00 | 08/18/12 02:21 | 1 |
| PCB-1254 | ND | | 0.38 | 0.087 | ug/L | | 08/10/12 13:00 | 08/18/12 02:21 | 1 |
| PCB-1260 | ND | | 0.38 | 0.052 | ug/L | | 08/10/12 13:00 | 08/18/12 02:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *87* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 02:21* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *87* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 02:21* | *1* |

## Method: 8151A - Herbicides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | ND | | 3.8 | 0.43 | ug/L | | 08/10/12 18:00 | 08/27/12 15:57 | 20 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

## Client Sample ID: 07W

**Date Collected: 08/07/12 03:00**
**Date Received: 08/09/12 09:00**

## Lab Sample ID: 180-13260-3

**Matrix: Water**

### Method: 8151A - Herbicides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-T | ND | | 0.94 | 0.091 | ug/L | | 08/10/12 18:00 | 08/27/12 15:57 | 20 |
| Silvex (2,4,5-TP) | ND | | 0.94 | 0.10 | ug/L | | 08/10/12 18:00 | 08/27/12 15:57 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *89* | | *32 - 140* | *08/10/12 18:00* | *08/27/12 15:31* | *20* |
| *2,4-Dichlorophenylacetic acid* | *105* | | *32 - 140* | *08/10/12 18:00* | *08/27/12 15:57* | *20* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **87** | | 10 | 2.7 | ug/L | | 08/13/12 16:34 | 08/24/12 00:25 | 1 |
| **Barium** | **190** | **J** | 200 | 0.62 | ug/L | | 08/13/12 16:34 | 08/24/12 00:25 | 1 |
| **Cadmium** | **0.34** | **J** | 5.0 | 0.13 | ug/L | | 08/13/12 16:34 | 08/24/12 00:25 | 1 |
| **Chromium** | **58** | | 5.0 | 0.57 | ug/L | | 08/13/12 16:34 | 08/24/12 00:25 | 1 |
| **Lead** | **29** | | 3.0 | 1.3 | ug/L | | 08/13/12 16:34 | 08/24/12 00:25 | 1 |
| **Selenium** | **3.7** | **J** | 5.0 | 3.0 | ug/L | | 08/13/12 16:34 | 08/24/12 00:25 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/13/12 16:34 | 08/24/12 00:25 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.057** | **J** | 0.20 | 0.038 | ug/L | | 08/27/12 09:05 | 08/27/12 14:51 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.4** | **J** | 5.2 | 1.5 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |

## Client Sample ID: 03@2-4'

**Date Collected: 08/07/12 03:45**
**Date Received: 08/09/12 09:00**

## Lab Sample ID: 180-13260-4

**Matrix: Solid**
**Percent Solids: 79.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | H | 6.3 | 0.85 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:23 | 1 |
| Toluene | ND | H | 6.3 | 0.92 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:23 | 1 |
| Ethylbenzene | ND | H | 6.3 | 0.81 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:23 | 1 |
| Xylenes, Total | ND | H | 19 | 2.8 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *75* | | *52 - 124* | *08/23/12 03:48* | *08/23/12 08:23* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *72 - 127* | *08/23/12 03:48* | *08/23/12 08:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *84* | | *63 - 120* | *08/23/12 03:48* | *08/23/12 08:23* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *68 - 121* | *08/23/12 03:48* | *08/23/12 08:23* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.32 | 0.024 | mg/Kg | ☼ | | 08/21/12 17:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *113* | | *70 - 131* | | *08/21/12 17:15* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **4.2** | | 4.2 | 2.7 | mg/Kg | ☼ | 08/14/12 11:27 | 08/22/12 01:22 | 1 |

## Client Sample ID: 03@2-4'

**Date Collected: 08/07/12 03:45**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-4**
**Matrix: Solid**
**Percent Solids: 79.2**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *45* | *X* | *56 - 135* | *08/14/12 11:27* | *08/22/12 01:22* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **3.6** | **J H** | 4.1 | 2.6 | mg/Kg | ☼ | 08/23/12 15:05 | 08/24/12 15:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *55* | *X* | *56 - 135* | *08/23/12 15:05* | *08/24/12 15:15* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 13 | 8.8 | mg/Kg | ☼ | 08/31/12 07:18 | 09/01/12 15:04 | 1 |
| **HEM** | **130** | **J B** | 210 | 29 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **21** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |
| **Percent Solids** | **79** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |

## Client Sample ID: 05@2-4'

**Date Collected: 08/07/12 04:00**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-5**
**Matrix: Solid**
**Percent Solids: 83.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | H | 6.0 | 0.81 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:46 | 1 |
| Toluene | ND | H | 6.0 | 0.88 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:46 | 1 |
| Ethylbenzene | ND | H | 6.0 | 0.77 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:46 | 1 |
| Xylenes, Total | ND | H | 18 | 2.7 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 08:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *70* | | *52 - 124* | *08/23/12 03:48* | *08/23/12 08:46* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *72 - 127* | *08/23/12 03:48* | *08/23/12 08:46* | *1* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *63 - 120* | *08/23/12 03:48* | *08/23/12 08:46* | *1* |
| *Dibromofluoromethane (Surr)* | *85* | | *68 - 121* | *08/23/12 03:48* | *08/23/12 08:46* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.30 | 0.023 | mg/Kg | ☼ | | 08/21/12 17:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *107* | | *70 - 131* | | *08/21/12 17:35* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **4.5** | | 3.9 | 2.5 | mg/Kg | ☼ | 08/14/12 11:27 | 08/22/12 01:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *45* | *X* | *56 - 135* | *08/14/12 11:27* | *08/22/12 01:50* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **6.3** | **H** | 3.9 | 2.5 | mg/Kg | ☼ | 08/23/12 15:05 | 08/24/12 15:29 | 1 |

## Client Sample ID: 05@2-4'

**Lab Sample ID: 180-13260-5**

**Date Collected: 08/07/12 04:00**

**Matrix: Solid**

**Date Received: 08/09/12 09:00**

**Percent Solids: 83.2**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *41* | *X* | *56 - 135* | *08/23/12 15:05* | *08/24/12 15:29* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 12 | 8.4 | mg/Kg | ☼ | 08/31/12 07:18 | 09/01/12 15:04 | 1 |
| **HEM** | **120** | **J B** | 200 | 28 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **17** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |
| **Percent Solids** | **83** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |

## Client Sample ID: 68W@2-4'

**Lab Sample ID: 180-13260-6**

**Date Collected: 08/07/12 12:45**

**Matrix: Solid**

**Date Received: 08/09/12 09:00**

**Percent Solids: 73.7**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | H | 6.8 | 0.92 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 09:07 | 1 |
| Toluene | ND | H | 6.8 | 0.99 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 09:07 | 1 |
| Ethylbenzene | ND | H | 6.8 | 0.87 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 09:07 | 1 |
| Xylenes, Total | ND | H | 20 | 3.0 | ug/Kg | ☼ | 08/23/12 03:48 | 08/23/12 09:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *52 - 124* | *08/23/12 03:48* | *08/23/12 09:07* | *1* |
| *Toluene-d8 (Surr)* | *104* | | *72 - 127* | *08/23/12 03:48* | *08/23/12 09:07* | *1* |
| *4-Bromofluorobenzene (Surr)* | *84* | | *63 - 120* | *08/23/12 03:48* | *08/23/12 09:07* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *68 - 121* | *08/23/12 03:48* | *08/23/12 09:07* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.34 | 0.026 | mg/Kg | ☼ | | 08/21/12 15:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *114* | | *70 - 131* | | *08/21/12 15:13* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **7.8** | | 4.4 | 2.8 | mg/Kg | ☼ | 08/14/12 11:27 | 08/22/12 01:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *70* | | *56 - 135* | *08/14/12 11:27* | *08/22/12 01:36* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 14 | 9.5 | mg/Kg | ☼ | 08/31/12 07:18 | 09/01/12 15:04 | 1 |
| **HEM** | **86** | **J B** | 230 | 31 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **26** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |
| **Percent Solids** | **74** | | 0.10 | 0.10 | % | | | 08/10/12 14:07 | 1 |

## Client Sample ID: 68W

**Lab Sample ID: 180-13260-7**

**Date Collected: 08/07/12 01:15**

**Matrix: Water**

**Date Received: 08/09/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/13/12 12:16 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/13/12 12:16 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/13/12 12:16 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/13/12 12:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *125* | | *64 - 135* | | *08/13/12 12:16* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *71 - 118* | | *08/13/12 12:16* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *70 - 118* | | *08/13/12 12:16* | *1* |
| *Dibromofluoromethane (Surr)* | *121* | | *70 - 128* | | *08/13/12 12:16* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 15:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/20/12 15:02* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.23** | | 0.099 | 0.049 | mg/L | | 08/13/12 17:45 | 08/21/12 23:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *89* | | *62 - 130* | *08/13/12 17:45* | *08/21/12 23:17* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.0** | **J** | 5.2 | 1.5 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |
| **Halogens, Total Organic** | **0.083** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| **TOX Result 1** | **0.091** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| **TOX Result 2** | **0.076** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |

## Client Sample ID: TRIP BLANK

**Lab Sample ID: 180-13260-8**

**Date Collected: 08/07/12 00:00**

**Matrix: Water**

**Date Received: 08/09/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/16/12 11:34 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 11:34 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 11:34 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:34 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 11:34 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:34 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:34 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:34 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:34 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 11:34 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:34 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 11:34 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:34 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-1

**Client Sample ID: TRIP BLANK**
**Date Collected: 08/07/12 00:00**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-8**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 11:34 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 11:34 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 11:34 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/16/12 11:34 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/16/12 11:34 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:34 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 11:34 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 11:34 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 11:34 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 11:34 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 11:34 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/16/12 11:34 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 11:34 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 11:34 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 11:34 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 11:34 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:34 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 11:34 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 11:34 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:34 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:34 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 08/16/12 11:34 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/16/12 11:34 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 11:34 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/16/12 11:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *74* | | *62 - 123* | | *08/16/12 11:34* | *1* |
| *Toluene-d8 (Surr)* | *116* | | *80 - 120* | | *08/16/12 11:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *75 - 120* | | *08/16/12 11:34* | *1* |
| *Dibromofluoromethane (Surr)* | *87* | | *80 - 120* | | *08/16/12 11:34* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-44724/4**
**Matrix: Water**
**Analysis Batch: 44724**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/13/12 03:27 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/13/12 03:27 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/13/12 03:27 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/13/12 03:27 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *116* | | *64 - 135* | | *08/13/12 03:27* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *71 - 118* | | *08/13/12 03:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 118* | | *08/13/12 03:27* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *70 - 128* | | *08/13/12 03:27* | *1* |

**Lab Sample ID: LCS 180-44724/6**
**Matrix: Water**
**Analysis Batch: 44724**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 10.0 | 10.8 | | ug/L | | 108 | 80 - 120 | | |
| Ethylbenzene | | | 10.0 | 11.2 | | ug/L | | 112 | 72 - 126 | | |
| Toluene | | | 10.0 | 10.7 | | ug/L | | 107 | 80 - 123 | | |
| Xylenes, Total | | | 30.0 | 32.2 | | ug/L | | 107 | 76 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *108* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *105* | | *70 - 128* |

**Lab Sample ID: LCSD 180-44724/7**
**Matrix: Water**
**Analysis Batch: 44724**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 10.0 | 10.6 | | ug/L | | 106 | 80 - 120 | 2 | 32 |
| Ethylbenzene | | | 10.0 | 10.6 | | ug/L | | 106 | 72 - 126 | 6 | 33 |
| Toluene | | | 10.0 | 10.5 | | ug/L | | 105 | 80 - 123 | 2 | 35 |
| Xylenes, Total | | | 30.0 | 31.2 | | ug/L | | 104 | 76 - 128 | 3 | 32 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *113* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *104* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *109* | | *70 - 128* |

**Lab Sample ID: MB 180-45239/3**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/16/12 11:03 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45239/3**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 11:03 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 11:03 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 11:03 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:03 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 11:03 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:03 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 11:03 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 11:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 11:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 11:03 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/16/12 11:03 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/16/12 11:03 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 11:03 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 11:03 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 11:03 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 11:03 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 11:03 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/16/12 11:03 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 11:03 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 11:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 11:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 11:03 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:03 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 11:03 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 11:03 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:03 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 08/16/12 11:03 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/16/12 11:03 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 11:03 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/16/12 11:03 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45239/3**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 123* | | *08/16/12 11:03* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *80 - 120* | | *08/16/12 11:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *75 - 120* | | *08/16/12 11:03* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *80 - 120* | | *08/16/12 11:03* | *1* |

**Lab Sample ID: LCS 180-45239/6**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 25.6 | | ug/L | | 64 | 10 - 141 |
| Benzene | 40.0 | 40.8 | | ug/L | | 102 | 80 - 120 |
| Dichlorobromomethane | 40.0 | 32.9 | | ug/L | | 82 | 71 - 119 |
| Bromoform | 40.0 | 30.1 | | ug/L | | 75 | 49 - 137 |
| Bromomethane | 40.0 | 32.1 | | ug/L | | 80 | 45 - 150 |
| 2-Butanone (MEK) | 40.0 | 30.4 | | ug/L | | 76 | 31 - 139 |
| Carbon disulfide | 40.0 | 42.6 | | ug/L | | 106 | 62 - 126 |
| Carbon tetrachloride | 40.0 | 36.0 | | ug/L | | 90 | 63 - 139 |
| Chlorobenzene | 40.0 | 40.9 | | ug/L | | 102 | 83 - 120 |
| Chloroethane | 40.0 | 40.4 | | ug/L | | 101 | 33 - 150 |
| Chloroform | 40.0 | 35.3 | | ug/L | | 88 | 77 - 119 |
| Chloromethane | 40.0 | 43.2 | | ug/L | | 108 | 49 - 133 |
| Chlorodibromomethane | 40.0 | 34.3 | | ug/L | | 86 | 64 - 124 |
| 1,1-Dichloroethane | 40.0 | 38.2 | | ug/L | | 96 | 77 - 122 |
| 1,2-Dichloroethane | 40.0 | 30.1 | | ug/L | | 75 | 63 - 140 |
| 1,1-Dichloroethene | 40.0 | 42.4 | | ug/L | | 106 | 69 - 127 |
| 1,2-Dichloropropane | 40.0 | 38.1 | | ug/L | | 95 | 75 - 114 |
| cis-1,3-Dichloropropene | 40.0 | 32.1 | | ug/L | | 80 | 74 - 123 |
| trans-1,3-Dichloropropene | 40.0 | 30.6 | | ug/L | | 76 | 63 - 122 |
| Ethylbenzene | 40.0 | 44.0 | | ug/L | | 110 | 79 - 124 |
| 2-Hexanone | 40.0 | 27.3 | | ug/L | | 68 | 35 - 129 |
| Methylene Chloride | 40.0 | 36.4 | | ug/L | | 91 | 75 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 30.3 | | ug/L | | 76 | 33 - 135 |
| Styrene | 40.0 | 40.1 | | ug/L | | 100 | 78 - 124 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 38.5 | | ug/L | | 96 | 59 - 136 |
| Tetrachloroethene | 40.0 | 44.1 | | ug/L | | 110 | 78 - 126 |
| 1,1,1-Trichloroethane | 40.0 | 34.8 | | ug/L | | 87 | 69 - 134 |
| 1,1,2-Trichloroethane | 40.0 | 37.4 | | ug/L | | 94 | 75 - 126 |
| Trichloroethene | 40.0 | 40.4 | | ug/L | | 101 | 80 - 120 |
| Vinyl chloride | 40.0 | 40.9 | | ug/L | | 102 | 57 - 128 |
| Xylenes, Total | 120 | 129 | | ug/L | | 107 | 81 - 121 |
| Cyclohexane | 40.0 | 43.2 | | ug/L | | 108 | 69 - 124 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 43.1 | | ug/L | | 108 | 28 - 150 |
| 1,2-Dibromoethane (EDB) | 40.0 | 34.8 | | ug/L | | 87 | 57 - 124 |
| Dichlorodifluoromethane | 40.0 | 42.8 | | ug/L | | 107 | 28 - 140 |
| cis-1,2-Dichloroethene | 40.0 | 38.4 | | ug/L | | 96 | 82 - 116 |
| trans-1,2-Dichloroethene | 40.0 | 41.9 | | ug/L | | 105 | 78 - 120 |
| Isopropylbenzene | 40.0 | 41.9 | | ug/L | | 105 | 73 - 130 |
| Methyl acetate | 40.0 | 32.2 | | ug/L | | 81 | 34 - 127 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45239/6**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Methylcyclohexane | 40.0 | 43.0 | | ug/L | | 108 | 67 - 120 |
| Methyl tert-butyl ether | 40.0 | 29.0 | | ug/L | | 72 | 53 - 122 |
| Trichlorofluoromethane | 40.0 | 36.5 | | ug/L | | 91 | 14 - 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 41.5 | | ug/L | | 104 | 70 - 131 |
| 1,2-Dichlorobenzene | 40.0 | 40.4 | | ug/L | | 101 | 75 - 125 |
| 1,3-Dichlorobenzene | 40.0 | 40.1 | | ug/L | | 100 | 76 - 125 |
| 1,4-Dichlorobenzene | 40.0 | 38.7 | | ug/L | | 97 | 76 - 123 |
| 1,2,4-Trichlorobenzene | 40.0 | 37.6 | | ug/L | | 94 | 35 - 150 |
| Toluene | 40.0 | 43.8 | | ug/L | | 109 | 80 - 124 |
| o-Xylene | 40.0 | 41.9 | | ug/L | | 105 | 78 - 124 |
| m-Xylene & p-Xylene | 80.0 | 86.9 | | ug/L | | 109 | 78 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *89* | | *80 - 120* |

**Lab Sample ID: LCSD 180-45239/7**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 16.6 | J * | ug/L | | 41 | 10 - 141 | 43 | 32 |
| Benzene | 40.0 | 39.8 | | ug/L | | 100 | 80 - 120 | 3 | 20 |
| Dichlorobromomethane | 40.0 | 31.0 | | ug/L | | 77 | 71 - 119 | 6 | 20 |
| Bromoform | 40.0 | 29.5 | | ug/L | | 74 | 49 - 137 | 2 | 20 |
| Bromomethane | 40.0 | 32.8 | | ug/L | | 82 | 45 - 150 | 2 | 23 |
| 2-Butanone (MEK) | 40.0 | 24.4 | | ug/L | | 61 | 31 - 139 | 22 | 35 |
| Carbon disulfide | 40.0 | 43.0 | | ug/L | | 107 | 62 - 126 | 1 | 20 |
| Carbon tetrachloride | 40.0 | 35.5 | | ug/L | | 89 | 63 - 139 | 1 | 25 |
| Chlorobenzene | 40.0 | 41.2 | | ug/L | | 103 | 83 - 120 | 1 | 20 |
| Chloroethane | 40.0 | 43.6 | | ug/L | | 109 | 33 - 150 | 7 | 24 |
| Chloroform | 40.0 | 34.4 | | ug/L | | 86 | 77 - 119 | 3 | 20 |
| Chloromethane | 40.0 | 41.9 | | ug/L | | 105 | 49 - 133 | 3 | 20 |
| Chlorodibromomethane | 40.0 | 33.0 | | ug/L | | 83 | 64 - 124 | 4 | 20 |
| 1,1-Dichloroethane | 40.0 | 38.2 | | ug/L | | 96 | 77 - 122 | 0 | 22 |
| 1,2-Dichloroethane | 40.0 | 28.2 | | ug/L | | 71 | 63 - 140 | 6 | 25 |
| 1,1-Dichloroethene | 40.0 | 43.0 | | ug/L | | 107 | 69 - 127 | 1 | 20 |
| 1,2-Dichloropropane | 40.0 | 36.1 | | ug/L | | 90 | 75 - 114 | 5 | 20 |
| cis-1,3-Dichloropropene | 40.0 | 30.1 | | ug/L | | 75 | 74 - 123 | 6 | 20 |
| trans-1,3-Dichloropropene | 40.0 | 29.6 | | ug/L | | 74 | 63 - 122 | 3 | 20 |
| Ethylbenzene | 40.0 | 45.9 | | ug/L | | 115 | 79 - 124 | 4 | 25 |
| 2-Hexanone | 40.0 | 19.2 | * | ug/L | | 48 | 35 - 129 | 35 | 24 |
| Methylene Chloride | 40.0 | 35.2 | | ug/L | | 88 | 75 - 120 | 4 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 28.0 | | ug/L | | 70 | 33 - 135 | 8 | 29 |
| Styrene | 40.0 | 39.7 | | ug/L | | 99 | 78 - 124 | 1 | 22 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 36.8 | | ug/L | | 92 | 59 - 136 | 5 | 20 |
| Tetrachloroethene | 40.0 | 46.9 | | ug/L | | 117 | 78 - 126 | 6 | 25 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45239/7**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | 40.0 | 35.5 | | ug/L | | 89 | 69 - 134 | 2 | 24 |
| 1,1,2-Trichloroethane | | | 40.0 | 36.4 | | ug/L | | 91 | 75 - 126 | 3 | 23 |
| Trichloroethene | | | 40.0 | 40.3 | | ug/L | | 101 | 80 - 120 | 0 | 20 |
| Vinyl chloride | | | 40.0 | 40.7 | | ug/L | | 102 | 57 - 128 | 0 | 26 |
| Xylenes, Total | | | 120 | 133 | | ug/L | | 110 | 81 - 121 | 3 | 20 |
| Cyclohexane | | | 40.0 | 42.0 | | ug/L | | 105 | 69 - 124 | 3 | 20 |
| 1,2-Dibromo-3-Chloropropane | | | 40.0 | 46.6 | | ug/L | | 117 | 28 - 150 | 8 | 20 |
| 1,2-Dibromoethane (EDB) | | | 40.0 | 33.5 | | ug/L | | 84 | 57 - 124 | 4 | 20 |
| Dichlorodifluoromethane | | | 40.0 | 43.8 | | ug/L | | 109 | 28 - 140 | 2 | 20 |
| cis-1,2-Dichloroethene | | | 40.0 | 38.1 | | ug/L | | 95 | 82 - 116 | 1 | 20 |
| trans-1,2-Dichloroethene | | | 40.0 | 41.4 | | ug/L | | 103 | 78 - 120 | 1 | 20 |
| Isopropylbenzene | | | 40.0 | 43.5 | | ug/L | | 109 | 73 - 130 | 4 | 20 |
| Methyl acetate | | | 40.0 | 27.0 | | ug/L | | 67 | 34 - 127 | 18 | 29 |
| Methylcyclohexane | | | 40.0 | 42.1 | | ug/L | | 105 | 67 - 120 | 2 | 20 |
| Methyl tert-butyl ether | | | 40.0 | 27.2 | | ug/L | | 68 | 53 - 122 | 6 | 20 |
| Trichlorofluoromethane | | | 40.0 | 35.6 | | ug/L | | 89 | 14 - 150 | 3 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 40.0 | 40.2 | | ug/L | | 101 | 70 - 131 | 3 | 30 |
| 1,2-Dichlorobenzene | | | 40.0 | 42.3 | | ug/L | | 106 | 75 - 125 | 4 | 20 |
| 1,3-Dichlorobenzene | | | 40.0 | 39.9 | | ug/L | | 100 | 76 - 125 | 1 | 21 |
| 1,4-Dichlorobenzene | | | 40.0 | 39.8 | | ug/L | | 100 | 76 - 123 | 3 | 20 |
| 1,2,4-Trichlorobenzene | | | 40.0 | 57.3 | * | ug/L | | 143 | 35 - 150 | 42 | 30 |
| Toluene | | | 40.0 | 44.9 | | ug/L | | 112 | 80 - 124 | 3 | 20 |
| o-Xylene | | | 40.0 | 42.3 | | ug/L | | 106 | 78 - 124 | 1 | 22 |
| m-Xylene & p-Xylene | | | 80.0 | 90.2 | | ug/L | | 113 | 78 - 124 | 4 | 24 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *109* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *85* | | *80 - 120* |

**Lab Sample ID: MB 180-45638/1-A**
**Matrix: Solid**
**Analysis Batch: 45696**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45638**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 1000 | 250 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Benzene | ND | | 250 | 49 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Bromodichloromethane | ND | | 250 | 47 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Bromoform | ND | | 250 | 53 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Bromomethane | ND | | 250 | 79 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 2-Butanone (MEK) | ND | | 250 | 54 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Carbon disulfide | ND | | 250 | 54 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Carbon tetrachloride | ND | | 250 | 54 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Chlorobenzene | ND | | 250 | 26 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Chloroethane | ND | | 250 | 37 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Chloroform | ND | | 250 | 50 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Chloromethane | ND | | 250 | 70 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Dibromochloromethane | ND | | 250 | 32 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45638/1-A**
**Matrix: Solid**
**Analysis Batch: 45696**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45638**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | | 250 | 51 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,2-Dichloroethane | ND | | 250 | 48 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,1-Dichloroethene | ND | | 250 | 53 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,2-Dichloropropane | ND | | 250 | 64 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| cis-1,3-Dichloropropene | ND | | 250 | 36 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 250 | 29 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Ethylbenzene | ND | | 250 | 31 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 2-Hexanone | ND | | 250 | 28 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Methylene Chloride | ND | | 250 | 54 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 250 | 30 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Styrene | ND | | 250 | 32 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 250 | 47 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Tetrachloroethene | ND | | 250 | 41 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,1,1-Trichloroethane | ND | | 250 | 51 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 250 | 58 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Trichloroethene | ND | | 250 | 40 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Vinyl chloride | ND | | 250 | 65 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Xylenes, Total | ND | | 750 | 98 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Cyclohexane | ND | | 250 | 30 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 250 | 18 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 250 | 31 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Dichlorodifluoromethane | ND | | 250 | 32 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| cis-1,2-Dichloroethene | ND | | 250 | 33 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 250 | 38 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Isopropylbenzene | ND | | 250 | 27 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Methyl acetate | ND | | 250 | 61 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Methylcyclohexane | ND | | 250 | 28 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Methyl tert-butyl ether | ND | | 250 | 51 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Trichlorofluoromethane | ND | | 250 | 56 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 250 | 17 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 250 | 34 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 250 | 25 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 250 | 26 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 250 | 19 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |
| Toluene | ND | | 250 | 42 | ug/Kg | | 08/20/12 15:38 | 08/21/12 05:19 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *52 - 124* | *08/20/12 15:38* | *08/21/12 05:19* | *1* |
| *Toluene-d8 (Surr)* | *116* | | *72 - 127* | *08/20/12 15:38* | *08/21/12 05:19* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *63 - 120* | *08/20/12 15:38* | *08/21/12 05:19* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *68 - 121* | *08/20/12 15:38* | *08/21/12 05:19* | *1* |

**Lab Sample ID: LCS 180-45638/2-A**
**Matrix: Solid**
**Analysis Batch: 45696**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45638**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 2000 | 1130 | | ug/Kg | | 57 | 20 - 150 |
| Benzene | 2000 | 1870 | | ug/Kg | | 94 | 77 - 120 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45638/2-A**
**Matrix: Solid**
**Analysis Batch: 45696**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45638**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Bromodichloromethane | 2000 | 1490 | | ug/Kg | | 74 | 70 - 125 |
| Bromoform | 2000 | 1410 | | ug/Kg | | 70 | 53 - 140 |
| Bromomethane | 2000 | 1360 | | ug/Kg | | 68 | 25 - 150 |
| 2-Butanone (MEK) | 2000 | 1690 | | ug/Kg | | 84 | 35 - 149 |
| Carbon disulfide | 2000 | 1830 | | ug/Kg | | 92 | 50 - 127 |
| Carbon tetrachloride | 2000 | 1620 | | ug/Kg | | 81 | 69 - 122 |
| Chlorobenzene | 2000 | 1960 | | ug/Kg | | 98 | 79 - 120 |
| Chloroethane | 2000 | 1880 | | ug/Kg | | 94 | 22 - 150 |
| Chloroform | 2000 | 1620 | | ug/Kg | | 81 | 72 - 120 |
| Chloromethane | 2000 | 1770 | | ug/Kg | | 88 | 44 - 131 |
| Dibromochloromethane | 2000 | 1620 | | ug/Kg | | 81 | 70 - 132 |
| 1,1-Dichloroethane | 2000 | 1740 | | ug/Kg | | 87 | 66 - 124 |
| 1,2-Dichloroethane | 2000 | 1410 | | ug/Kg | | 70 | 61 - 127 |
| 1,1-Dichloroethene | 2000 | 1940 | | ug/Kg | | 97 | 59 - 129 |
| 1,2-Dichloropropane | 2000 | 1780 | | ug/Kg | | 89 | 72 - 122 |
| cis-1,3-Dichloropropene | 2000 | 1540 | | ug/Kg | | 77 | 73 - 120 |
| trans-1,3-Dichloropropene | 2000 | 1570 | | ug/Kg | | 78 | 74 - 129 |
| Ethylbenzene | 2000 | 2070 | | ug/Kg | | 103 | 78 - 125 |
| 2-Hexanone | 2000 | 1680 | | ug/Kg | | 84 | 32 - 150 |
| Methylene Chloride | 2000 | 1720 | | ug/Kg | | 86 | 58 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 2000 | 2190 | | ug/Kg | | 109 | 44 - 148 |
| Styrene | 2000 | 1920 | | ug/Kg | | 96 | 83 - 129 |
| 1,1,2,2-Tetrachloroethane | 2000 | 1790 | | ug/Kg | | 90 | 60 - 139 |
| Tetrachloroethene | 2000 | 2110 | | ug/Kg | | 105 | 78 - 129 |
| 1,1,1-Trichloroethane | 2000 | 1620 | | ug/Kg | | 81 | 67 - 126 |
| 1,1,2-Trichloroethane | 2000 | 1820 | | ug/Kg | | 91 | 70 - 128 |
| Trichloroethene | 2000 | 1940 | | ug/Kg | | 97 | 76 - 119 |
| Vinyl chloride | 2000 | 1660 | | ug/Kg | | 83 | 63 - 124 |
| Xylenes, Total | 6000 | 6010 | | ug/Kg | | 100 | 83 - 126 |
| Cyclohexane | 2000 | 1990 | | ug/Kg | | 100 | 64 - 130 |
| 1,2-Dibromo-3-Chloropropane | 2000 | 295 | * | ug/Kg | | 15 | 35 - 136 |
| 1,2-Dibromoethane (EDB) | 2000 | 1700 | | ug/Kg | | 85 | 70 - 131 |
| Dichlorodifluoromethane | 2000 | 1500 | | ug/Kg | | 75 | 25 - 150 |
| cis-1,2-Dichloroethene | 2000 | 1820 | | ug/Kg | | 91 | 80 - 118 |
| trans-1,2-Dichloroethene | 2000 | 1920 | | ug/Kg | | 96 | 77 - 121 |
| Isopropylbenzene | 2000 | 2000 | | ug/Kg | | 100 | 70 - 133 |
| Methyl acetate | 2000 | 1630 | | ug/Kg | | 82 | 27 - 142 |
| Methylcyclohexane | 2000 | 2050 | | ug/Kg | | 103 | 66 - 135 |
| Methyl tert-butyl ether | 2000 | 1420 | | ug/Kg | | 71 | 48 - 132 |
| Trichlorofluoromethane | 2000 | 1530 | | ug/Kg | | 77 | 20 - 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 2000 | 1850 | | ug/Kg | | 93 | 55 - 130 |
| 1,2-Dichlorobenzene | 2000 | 1520 | | ug/Kg | | 76 | 71 - 124 |
| 1,3-Dichlorobenzene | 2000 | 1730 | | ug/Kg | | 86 | 75 - 118 |
| 1,4-Dichlorobenzene | 2000 | 1740 | | ug/Kg | | 87 | 77 - 116 |
| 1,2,4-Trichlorobenzene | 2000 | 241 | J * | ug/Kg | | 12 | 51 - 136 |
| Toluene | 2000 | 2070 | | ug/Kg | | 104 | 78 - 124 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45638/2-A**
**Matrix: Solid**
**Analysis Batch: 45696**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45638**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *71* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *106* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *86* | | *68 - 121* |

**Lab Sample ID: MB 180-46000/1-A**
**Matrix: Solid**
**Analysis Batch: 46006**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46000**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/23/12 03:48 | 08/23/12 06:11 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/23/12 03:48 | 08/23/12 06:11 | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 08/23/12 03:48 | 08/23/12 06:11 | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 08/23/12 03:48 | 08/23/12 06:11 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *52 - 124* | *08/23/12 03:48* | *08/23/12 06:11* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *72 - 127* | *08/23/12 03:48* | *08/23/12 06:11* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *63 - 120* | *08/23/12 03:48* | *08/23/12 06:11* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *68 - 121* | *08/23/12 03:48* | *08/23/12 06:11* | *1* |

**Lab Sample ID: LCS 180-46000/2-A**
**Matrix: Solid**
**Analysis Batch: 46006**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46000**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 40.0 | 33.4 | | ug/Kg | | 84 | 77 - 120 |
| Ethylbenzene | 40.0 | 35.1 | | ug/Kg | | 88 | 78 - 125 |
| Xylenes, Total | 120 | 105 | | ug/Kg | | 87 | 83 - 126 |
| Toluene | 40.0 | 33.4 | | ug/Kg | | 84 | 78 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *86* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *92* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *96* | | *68 - 121* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-44683/1-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 2.0 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Acetophenone | ND | | 10 | 0.80 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Acenaphthylene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Anthracene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[a]anthracene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-44683/1-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[a]pyrene | ND | | 2.0 | 0.13 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[b]fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[g,h,i]perylene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzo[k]fluoranthene | ND | | 2.0 | 0.55 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Bis(2-chloroethyl)ether | ND | | 2.0 | 0.25 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 10 | 0.58 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 2.0 | 0.20 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 20 | 13 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 10 | 0.64 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 1.4 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Carbazole | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Chloroaniline | ND | | 10 | 0.89 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Chloronaphthalene | ND | | 2.0 | 0.15 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | 0.50 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Chrysene | ND | | 2.0 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Dibenz(a,h)anthracene | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Dibenzofuran | ND | | 10 | 0.62 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 1.2 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 10 | 1.1 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Diethyl phthalate | ND | | 10 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.77 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4-Dinitrotoluene | ND | | 10 | 0.54 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,6-Dinitrotoluene | ND | | 10 | 0.80 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 2.1 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Fluorene | ND | | 2.0 | 0.22 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Hexachlorobenzene | ND | | 2.0 | 0.18 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | 0.17 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.52 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Hexachloroethane | ND | | 10 | 0.63 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 2.0 | 0.20 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Isophorone | ND | | 10 | 0.64 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Methylnaphthalene | ND | | 2.0 | 0.12 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Naphthalene | ND | | 2.0 | 0.14 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Nitroaniline | ND | | 50 | 3.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 3-Nitroaniline | ND | | 50 | 3.2 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Nitroaniline | ND | | 50 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Nitrobenzene | ND | | 20 | 0.84 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 2.0 | 0.31 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| N-Nitrosodiphenylamine | ND | | 10 | 0.85 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Phenanthrene | ND | | 2.0 | 0.43 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Pyrene | ND | | 2.0 | 0.16 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4-Chloro-3-methylphenol | ND | | 10 | 0.75 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Chlorophenol | ND | | 10 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Methylphenol | ND | | 10 | 0.86 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4-Dichlorophenol | ND | | 2.0 | 0.33 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4-Dimethylphenol | ND | | 10 | 0.85 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4-Dinitrophenol | ND | | 50 | 6.1 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 50 | 2.2 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2-Nitrophenol | ND | | 10 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-44683/1-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | | 50 | 6.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Pentachlorophenol | ND | | 10 | 0.66 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Phenol | ND | | 2.0 | 0.58 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 2,4,6-Trichlorophenol | ND | | 10 | 1.7 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| 1,1'-Biphenyl | ND | | 10 | 0.42 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Caprolactam | ND | | 50 | 12 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Benzaldehyde | ND | | 10 | 1.5 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Atrazine | ND | | 10 | 0.89 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |
| Methylphenol, 3 & 4 | ND | | 10 | 0.90 | ug/L | | 08/11/12 13:59 | 08/14/12 11:51 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *57* | | *37 - 104* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *2-Fluorobiphenyl* | *59* | | *35 - 108* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *Terphenyl-d14* | *75* | | *25 - 130* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *Phenol-d5* | *64* | | *30 - 102* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *2-Fluorophenol* | *58* | | *26 - 100* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |
| *2,4,6-Tribromophenol* | *56* | | *33 - 122* | *08/11/12 13:59* | *08/14/12 11:51* | *1* |

**Lab Sample ID: LCS 180-44683/2-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 200 | 152 | | ug/L | | 76 | 39 - 106 |
| Acenaphthylene | 200 | 165 | | ug/L | | 83 | 40 - 113 |
| Anthracene | 200 | 163 | | ug/L | | 82 | 37 - 108 |
| Benzo[a]anthracene | 200 | 160 | | ug/L | | 80 | 40 - 103 |
| Benzo[a]pyrene | 200 | 171 | | ug/L | | 85 | 37 - 105 |
| Benzo[b]fluoranthene | 200 | 157 | | ug/L | | 78 | 35 - 100 |
| Benzo[g,h,i]perylene | 200 | 168 | | ug/L | | 84 | 31 - 118 |
| Benzo[k]fluoranthene | 200 | 155 | | ug/L | | 77 | 37 - 108 |
| Bis(2-chloroethyl)ether | 200 | 143 | | ug/L | | 71 | 34 - 96 |
| Bis(2-chloroethoxy)methane | 200 | 147 | | ug/L | | 74 | 36 - 101 |
| bis (2-chloroisopropyl) ether | 200 | 139 | | ug/L | | 70 | 30 - 100 |
| Bis(2-ethylhexyl) phthalate | 200 | 160 | | ug/L | | 80 | 35 - 112 |
| 4-Bromophenyl phenyl ether | 200 | 130 | | ug/L | | 65 | 38 - 108 |
| Butyl benzyl phthalate | 200 | 158 | | ug/L | | 79 | 34 - 110 |
| Carbazole | 200 | 172 | | ug/L | | 86 | 35 - 113 |
| 4-Chloroaniline | 200 | 155 | | ug/L | | 77 | 26 - 99 |
| 2-Chloronaphthalene | 200 | 144 | | ug/L | | 72 | 37 - 102 |
| 4-Chlorophenyl phenyl ether | 200 | 159 | | ug/L | | 79 | 39 - 107 |
| Chrysene | 200 | 157 | | ug/L | | 78 | 39 - 103 |
| Dibenz(a,h)anthracene | 200 | 147 | | ug/L | | 73 | 32 - 117 |
| Dibenzofuran | 200 | 158 | | ug/L | | 79 | 37 - 107 |
| Di-n-butyl phthalate | 200 | 179 | | ug/L | | 90 | 36 - 113 |
| 3,3'-Dichlorobenzidine | 200 | 169 | | ug/L | | 85 | 11 - 106 |
| Diethyl phthalate | 200 | 175 | | ug/L | | 87 | 39 - 112 |
| Dimethyl phthalate | 200 | 166 | | ug/L | | 83 | 40 - 110 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-44683/2-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | 200 | 183 | | ug/L | | 91 | 41 - 117 |
| 2,6-Dinitrotoluene | 200 | 175 | | ug/L | | 87 | 42 - 118 |
| Di-n-octyl phthalate | 200 | 167 | | ug/L | | 84 | 27 - 118 |
| Fluoranthene | 200 | 184 | | ug/L | | 92 | 35 - 111 |
| Fluorene | 200 | 161 | | ug/L | | 81 | 39 - 107 |
| Hexachlorobenzene | 200 | 154 | | ug/L | | 77 | 35 - 106 |
| Hexachlorobutadiene | 200 | 139 | | ug/L | | 70 | 30 - 103 |
| Hexachlorocyclopentadiene | 200 | 148 | | ug/L | | 74 | 19 - 116 |
| Hexachloroethane | 200 | 130 | | ug/L | | 65 | 27 - 94 |
| Indeno[1,2,3-cd]pyrene | 200 | 161 | | ug/L | | 80 | 32 - 116 |
| Isophorone | 200 | 146 | | ug/L | | 73 | 39 - 108 |
| 2-Methylnaphthalene | 200 | 148 | | ug/L | | 74 | 36 - 101 |
| Naphthalene | 200 | 144 | | ug/L | | 72 | 35 - 98 |
| 2-Nitroaniline | 200 | 160 | | ug/L | | 80 | 37 - 114 |
| 3-Nitroaniline | 200 | 179 | | ug/L | | 90 | 32 - 117 |
| 4-Nitroaniline | 200 | 200 | | ug/L | | 100 | 32 - 117 |
| Nitrobenzene | 200 | 140 | | ug/L | | 70 | 37 - 103 |
| N-Nitrosodi-n-propylamine | 200 | 141 | | ug/L | | 70 | 37 - 106 |
| N-Nitrosodiphenylamine | 200 | 166 | | ug/L | | 83 | 34 - 108 |
| Phenanthrene | 200 | 157 | | ug/L | | 79 | 34 - 107 |
| Pyrene | 200 | 142 | | ug/L | | 71 | 36 - 115 |
| 4-Chloro-3-methylphenol | 200 | 157 | | ug/L | | 79 | 40 - 107 |
| 2-Chlorophenol | 200 | 141 | | ug/L | | 71 | 34 - 100 |
| 2-Methylphenol | 200 | 147 | | ug/L | | 73 | 34 - 101 |
| 2,4-Dichlorophenol | 200 | 148 | | ug/L | | 74 | 34 - 106 |
| 2,4-Dimethylphenol | 200 | 144 | | ug/L | | 72 | 34 - 98 |
| 2,4-Dinitrophenol | 200 | 180 | | ug/L | | 90 | 3 - 125 |
| 4,6-Dinitro-2-methylphenol | 200 | 165 | | ug/L | | 82 | 24 - 121 |
| 2-Nitrophenol | 200 | 147 | | ug/L | | 74 | 33 - 108 |
| 4-Nitrophenol | 200 | 195 | | ug/L | | 98 | 29 - 120 |
| Pentachlorophenol | 200 | 165 | | ug/L | | 82 | 10 - 118 |
| Phenol | 200 | 141 | | ug/L | | 71 | 35 - 98 |
| 2,4,5-Trichlorophenol | 200 | 152 | | ug/L | | 76 | 31 - 111 |
| 2,4,6-Trichlorophenol | 200 | 147 | | ug/L | | 73 | 34 - 110 |
| Methylphenol, 3 & 4 | 400 | 314 | | ug/L | | 78 | 34 - 104 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *73* | | *37 - 104* |
| *2-Fluorobiphenyl* | *76* | | *35 - 108* |
| *Terphenyl-d14* | *83* | | *25 - 130* |
| *Phenol-d5* | *80* | | *30 - 102* |
| *2-Fluorophenol* | *74* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *80* | | *33 - 122* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-44683/3-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 200 | 157 | | ug/L | | 79 | 39 - 106 | 3 | 32 |
| Acenaphthylene | 200 | 172 | | ug/L | | 86 | 40 - 113 | 4 | 33 |
| Anthracene | 200 | 170 | | ug/L | | 85 | 37 - 108 | 4 | 40 |
| Benzo[a]anthracene | 200 | 164 | | ug/L | | 82 | 40 - 103 | 2 | 33 |
| Benzo[a]pyrene | 200 | 177 | | ug/L | | 89 | 37 - 105 | 4 | 35 |
| Benzo[b]fluoranthene | 200 | 166 | | ug/L | | 83 | 35 - 100 | 6 | 44 |
| Benzo[g,h,i]perylene | 200 | 178 | | ug/L | | 89 | 31 - 118 | 6 | 45 |
| Benzo[k]fluoranthene | 200 | 161 | | ug/L | | 81 | 37 - 108 | 4 | 42 |
| Bis(2-chloroethyl)ether | 200 | 146 | | ug/L | | 73 | 34 - 96 | 2 | 34 |
| Bis(2-chloroethoxy)methane | 200 | 148 | | ug/L | | 74 | 36 - 101 | 1 | 35 |
| bis (2-chloroisopropyl) ether | 200 | 143 | | ug/L | | 72 | 30 - 100 | 3 | 38 |
| Bis(2-ethylhexyl) phthalate | 200 | 165 | | ug/L | | 82 | 35 - 112 | 3 | 34 |
| 4-Bromophenyl phenyl ether | 200 | 140 | | ug/L | | 70 | 38 - 108 | 7 | 40 |
| Butyl benzyl phthalate | 200 | 164 | | ug/L | | 82 | 34 - 110 | 3 | 35 |
| Carbazole | 200 | 181 | | ug/L | | 90 | 35 - 113 | 5 | 32 |
| 4-Chloroaniline | 200 | 160 | | ug/L | | 80 | 26 - 99 | 4 | 55 |
| 2-Chloronaphthalene | 200 | 148 | | ug/L | | 74 | 37 - 102 | 3 | 34 |
| 4-Chlorophenyl phenyl ether | 200 | 165 | | ug/L | | 82 | 39 - 107 | 4 | 34 |
| Chrysene | 200 | 163 | | ug/L | | 81 | 39 - 103 | 4 | 38 |
| Dibenz(a,h)anthracene | 200 | 156 | | ug/L | | 78 | 32 - 117 | 6 | 43 |
| Dibenzofuran | 200 | 160 | | ug/L | | 80 | 37 - 107 | 2 | 32 |
| Di-n-butyl phthalate | 200 | 186 | | ug/L | | 93 | 36 - 113 | 4 | 39 |
| 3,3'-Dichlorobenzidine | 200 | 176 | | ug/L | | 88 | 11 - 106 | 4 | 56 |
| Diethyl phthalate | 200 | 178 | | ug/L | | 89 | 39 - 112 | 2 | 32 |
| Dimethyl phthalate | 200 | 169 | | ug/L | | 85 | 40 - 110 | 2 | 33 |
| 2,4-Dinitrotoluene | 200 | 185 | | ug/L | | 93 | 41 - 117 | 1 | 32 |
| 2,6-Dinitrotoluene | 200 | 183 | | ug/L | | 92 | 42 - 118 | 5 | 33 |
| Di-n-octyl phthalate | 200 | 174 | | ug/L | | 87 | 27 - 118 | 4 | 36 |
| Fluoranthene | 200 | 189 | | ug/L | | 95 | 35 - 111 | 3 | 43 |
| Fluorene | 200 | 165 | | ug/L | | 82 | 39 - 107 | 2 | 33 |
| Hexachlorobenzene | 200 | 162 | | ug/L | | 81 | 35 - 106 | 5 | 36 |
| Hexachlorobutadiene | 200 | 144 | | ug/L | | 72 | 30 - 103 | 3 | 41 |
| Hexachlorocyclopentadiene | 200 | 155 | | ug/L | | 78 | 19 - 116 | 5 | 57 |
| Hexachloroethane | 200 | 138 | | ug/L | | 69 | 27 - 94 | 5 | 43 |
| Indeno[1,2,3-cd]pyrene | 200 | 172 | | ug/L | | 86 | 32 - 116 | 7 | 45 |
| Isophorone | 200 | 149 | | ug/L | | 75 | 39 - 108 | 2 | 36 |
| 2-Methylnaphthalene | 200 | 152 | | ug/L | | 76 | 36 - 101 | 3 | 35 |
| Naphthalene | 200 | 145 | | ug/L | | 73 | 35 - 98 | 1 | 39 |
| 2-Nitroaniline | 200 | 166 | | ug/L | | 83 | 37 - 114 | 4 | 33 |
| 3-Nitroaniline | 200 | 184 | | ug/L | | 92 | 32 - 117 | 3 | 46 |
| 4-Nitroaniline | 200 | 201 | | ug/L | | 101 | 32 - 117 | 1 | 39 |
| Nitrobenzene | 200 | 143 | | ug/L | | 71 | 37 - 103 | 2 | 34 |
| N-Nitrosodi-n-propylamine | 200 | 146 | | ug/L | | 73 | 37 - 106 | 4 | 36 |
| N-Nitrosodiphenylamine | 200 | 171 | | ug/L | | 86 | 34 - 108 | 3 | 42 |
| Phenanthrene | 200 | 164 | | ug/L | | 82 | 34 - 107 | 4 | 34 |
| Pyrene | 200 | 147 | | ug/L | | 73 | 36 - 115 | 4 | 38 |
| 4-Chloro-3-methylphenol | 200 | 164 | | ug/L | | 82 | 40 - 107 | 4 | 32 |
| 2-Chlorophenol | 200 | 145 | | ug/L | | 73 | 34 - 100 | 3 | 31 |
| 2-Methylphenol | 200 | 151 | | ug/L | | 75 | 34 - 101 | 2 | 34 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-44683/3-A**
**Matrix: Water**
**Analysis Batch: 45032**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44683**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | | | 200 | 150 | | ug/L | | 75 | 34 - 106 | 1 | 33 |
| 2,4-Dimethylphenol | | | 200 | 149 | | ug/L | | 74 | 34 - 98 | 3 | 34 |
| 2,4-Dinitrophenol | | | 200 | 189 | | ug/L | | 95 | 3 - 125 | 5 | 62 |
| 4,6-Dinitro-2-methylphenol | | | 200 | 174 | | ug/L | | 87 | 24 - 121 | 6 | 50 |
| 2-Nitrophenol | | | 200 | 150 | | ug/L | | 75 | 33 - 108 | 2 | 41 |
| 4-Nitrophenol | | | 200 | 199 | | ug/L | | 99 | 29 - 120 | 2 | 39 |
| Pentachlorophenol | | | 200 | 171 | | ug/L | | 85 | 10 - 118 | 4 | 49 |
| Phenol | | | 200 | 146 | | ug/L | | 73 | 35 - 98 | 3 | 35 |
| 2,4,5-Trichlorophenol | | | 200 | 157 | | ug/L | | 78 | 31 - 111 | 3 | 32 |
| 2,4,6-Trichlorophenol | | | 200 | 151 | | ug/L | | 75 | 34 - 110 | 3 | 35 |
| Methylphenol, 3 & 4 | | | 400 | 324 | | ug/L | | 81 | 34 - 104 | 3 | 34 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *76* | | *37 - 104* |
| *2-Fluorobiphenyl* | *79* | | *35 - 108* |
| *Terphenyl-d14* | *85* | | *25 - 130* |
| *Phenol-d5* | *82* | | *30 - 102* |
| *2-Fluorophenol* | *76* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *84* | | *33 - 122* |

**Lab Sample ID: MB 180-45542/1-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 67 | 6.4 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Acetophenone | ND | | 330 | 27 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Acenaphthylene | ND | | 67 | 7.6 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Anthracene | ND | | 67 | 6.5 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[a]anthracene | ND | | 67 | 8.4 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[a]pyrene | ND | | 67 | 6.7 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[b]fluoranthene | ND | | 67 | 10 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[g,h,i]perylene | ND | | 67 | 6.6 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzo[k]fluoranthene | ND | | 67 | 13 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Bis(2-chloroethyl)ether | ND | | 67 | 9.0 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 330 | 22 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 67 | 7.2 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 670 | 54 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 330 | 29 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Butyl benzyl phthalate | ND | | 330 | 46 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Carbazole | ND | | 67 | 6.1 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Chloroaniline | ND | | 330 | 27 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Chloronaphthalene | ND | | 67 | 7.0 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 330 | 37 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Chrysene | ND | | 67 | 7.9 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Dibenz(a,h)anthracene | ND | | 67 | 7.4 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Dibenzofuran | ND | | 330 | 33 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Di-n-butyl phthalate | ND | | 330 | 42 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 330 | 35 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45542/1-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | | 330 | 36 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Dimethyl phthalate | ND | | 330 | 36 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4-Dinitrotoluene | ND | | 330 | 27 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,6-Dinitrotoluene | ND | | 330 | 34 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Di-n-octyl phthalate | ND | | 330 | 35 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Fluoranthene | ND | | 67 | 7.1 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Fluorene | ND | | 67 | 8.8 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Hexachlorobenzene | ND | | 67 | 7.1 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Hexachlorobutadiene | ND | | 67 | 7.5 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Hexachlorocyclopentadiene | ND | | 330 | 36 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Hexachloroethane | ND | | 330 | 24 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 67 | 6.9 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Isophorone | ND | | 330 | 25 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Methylnaphthalene | ND | | 67 | 6.0 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Naphthalene | ND | | 67 | 5.7 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Nitroaniline | ND | | 1700 | 150 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 3-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Nitrobenzene | ND | | 670 | 28 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 67 | 7.8 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| N-Nitrosodiphenylamine | ND | | 330 | 31 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Phenanthrene | ND | | 67 | 11 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Pyrene | ND | | 67 | 6.7 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Chloro-3-methylphenol | ND | | 330 | 31 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Chlorophenol | ND | | 330 | 27 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Methylphenol | ND | | 330 | 23 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4-Dichlorophenol | ND | | 67 | 6.7 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4-Dimethylphenol | ND | | 330 | 52 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4-Dinitrophenol | ND | | 1700 | 400 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1700 | 130 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2-Nitrophenol | ND | | 330 | 37 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 4-Nitrophenol | ND | | 1700 | 120 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Pentachlorophenol | ND | | 330 | 30 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Phenol | ND | | 67 | 7.9 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4,5-Trichlorophenol | ND | | 330 | 36 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 2,4,6-Trichlorophenol | ND | | 330 | 50 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| 1,1'-Biphenyl | ND | | 330 | 30 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Caprolactam | ND | | 1700 | 250 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Benzaldehyde | ND | | 330 | 50 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Atrazine | ND | | 330 | 32 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |
| Methylphenol, 3 & 4 | ND | | 330 | 33 | ug/Kg | | 08/20/12 06:10 | 08/20/12 11:41 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *59* | | *25 - 104* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *2-Fluorobiphenyl* | *58* | | *35 - 105* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *Terphenyl-d14* | *61* | | *25 - 127* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *Phenol-d5* | *66* | | *25 - 105* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *2-Fluorophenol* | *63* | | *39 - 103* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |
| *2,4,6-Tribromophenol* | *52* | | *35 - 124* | *08/20/12 06:10* | *08/20/12 11:41* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45542/2-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2110 | | ug/Kg | | 63 | 47 - 104 |
| Acenaphthylene | 3330 | 2310 | | ug/Kg | | 69 | 49 - 114 |
| Anthracene | 3330 | 2150 | | ug/Kg | | 65 | 45 - 112 |
| Benzo[a]anthracene | 3330 | 2060 | | ug/Kg | | 62 | 47 - 110 |
| Benzo[a]pyrene | 3330 | 2190 | | ug/Kg | | 66 | 47 - 112 |
| Benzo[b]fluoranthene | 3330 | 1950 | | ug/Kg | | 59 | 41 - 107 |
| Benzo[g,h,i]perylene | 3330 | 2160 | | ug/Kg | | 65 | 38 - 126 |
| Benzo[k]fluoranthene | 3330 | 2220 | | ug/Kg | | 66 | 44 - 115 |
| Bis(2-chloroethyl)ether | 3330 | 2000 | | ug/Kg | | 60 | 38 - 99 |
| Bis(2-chloroethoxy)methane | 3330 | 1970 | | ug/Kg | | 59 | 44 - 101 |
| bis (2-chloroisopropyl) ether | 3330 | 1920 | | ug/Kg | | 58 | 36 - 101 |
| Bis(2-ethylhexyl) phthalate | 3330 | 2020 | | ug/Kg | | 61 | 40 - 122 |
| 4-Bromophenyl phenyl ether | 3330 | 2000 | | ug/Kg | | 60 | 47 - 110 |
| Butyl benzyl phthalate | 3330 | 2040 | | ug/Kg | | 61 | 41 - 118 |
| Carbazole | 3330 | 2170 | | ug/Kg | | 65 | 45 - 114 |
| 4-Chloroaniline | 3330 | 2160 | | ug/Kg | | 65 | 25 - 108 |
| 2-Chloronaphthalene | 3330 | 2100 | | ug/Kg | | 63 | 46 - 101 |
| 4-Chlorophenyl phenyl ether | 3330 | 2210 | | ug/Kg | | 66 | 47 - 109 |
| Chrysene | 3330 | 2230 | | ug/Kg | | 67 | 46 - 111 |
| Dibenz(a,h)anthracene | 3330 | 2160 | | ug/Kg | | 65 | 39 - 127 |
| Dibenzofuran | 3330 | 2080 | | ug/Kg | | 63 | 46 - 104 |
| Di-n-butyl phthalate | 3330 | 2170 | | ug/Kg | | 65 | 43 - 121 |
| 3,3'-Dichlorobenzidine | 3330 | 2210 | | ug/Kg | | 66 | 19 - 122 |
| Diethyl phthalate | 3330 | 2220 | | ug/Kg | | 66 | 47 - 115 |
| Dimethyl phthalate | 3330 | 2180 | | ug/Kg | | 65 | 49 - 111 |
| 2,4-Dinitrotoluene | 3330 | 2340 | | ug/Kg | | 70 | 45 - 124 |
| 2,6-Dinitrotoluene | 3330 | 2290 | | ug/Kg | | 69 | 50 - 122 |
| Di-n-octyl phthalate | 3330 | 2080 | | ug/Kg | | 62 | 33 - 129 |
| Fluoranthene | 3330 | 2300 | | ug/Kg | | 69 | 40 - 120 |
| Fluorene | 3330 | 2220 | | ug/Kg | | 67 | 46 - 109 |
| Hexachlorobenzene | 3330 | 2110 | | ug/Kg | | 63 | 47 - 108 |
| Hexachlorobutadiene | 3330 | 1930 | | ug/Kg | | 58 | 43 - 107 |
| Hexachlorocyclopentadiene | 3330 | 2130 | | ug/Kg | | 64 | 23 - 129 |
| Hexachloroethane | 3330 | 1890 | | ug/Kg | | 57 | 37 - 97 |
| Indeno[1,2,3-cd]pyrene | 3330 | 2110 | | ug/Kg | | 63 | 41 - 125 |
| Isophorone | 3330 | 2080 | | ug/Kg | | 62 | 47 - 110 |
| 2-Methylnaphthalene | 3330 | 2010 | | ug/Kg | | 60 | 45 - 100 |
| Naphthalene | 3330 | 2000 | | ug/Kg | | 60 | 43 - 100 |
| 2-Nitroaniline | 3330 | 2050 | | ug/Kg | | 61 | 45 - 117 |
| 3-Nitroaniline | 3330 | 2210 | | ug/Kg | | 66 | 34 - 122 |
| 4-Nitroaniline | 3330 | 2410 | | ug/Kg | | 72 | 38 - 123 |
| Nitrobenzene | 3330 | 1940 | | ug/Kg | | 58 | 43 - 104 |
| N-Nitrosodi-n-propylamine | 3330 | 1980 | | ug/Kg | | 59 | 42 - 107 |
| N-Nitrosodiphenylamine | 3330 | 2160 | | ug/Kg | | 65 | 44 - 111 |
| Phenanthrene | 3330 | 2100 | | ug/Kg | | 63 | 43 - 108 |
| Pyrene | 3330 | 1930 | | ug/Kg | | 58 | 41 - 115 |
| 4-Chloro-3-methylphenol | 3330 | 1940 | | ug/Kg | | 58 | 47 - 109 |
| 2-Chlorophenol | 3330 | 2030 | | ug/Kg | | 61 | 40 - 101 |
| 2-Methylphenol | 3330 | 2010 | | ug/Kg | | 60 | 40 - 104 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45542/2-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | 3330 | 1990 | | ug/Kg | | 60 | 47 - 105 |
| 2,4-Dimethylphenol | 3330 | 1930 | | ug/Kg | | 58 | 44 - 105 |
| 2,4-Dinitrophenol | 3330 | 1770 | | ug/Kg | | 53 | 10 - 146 |
| 4,6-Dinitro-2-methylphenol | 3330 | 1880 | | ug/Kg | | 57 | 24 - 134 |
| 2-Nitrophenol | 3330 | 1960 | | ug/Kg | | 59 | 46 - 106 |
| 4-Nitrophenol | 3330 | 2000 | | ug/Kg | | 60 | 36 - 127 |
| Pentachlorophenol | 3330 | 1550 | | ug/Kg | | 47 | 17 - 122 |
| Phenol | 3330 | 2010 | | ug/Kg | | 60 | 41 - 102 |
| 2,4,5-Trichlorophenol | 3330 | 1980 | | ug/Kg | | 59 | 48 - 108 |
| 2,4,6-Trichlorophenol | 3330 | 2040 | | ug/Kg | | 61 | 50 - 106 |
| Methylphenol, 3 & 4 | 6670 | 4370 | | ug/Kg | | 66 | 42 - 105 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *58* | | *25 - 104* |
| *2-Fluorobiphenyl* | *62* | | *35 - 105* |
| *Terphenyl-d14* | *63* | | *25 - 127* |
| *Phenol-d5* | *64* | | *25 - 105* |
| *2-Fluorophenol* | *57* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *63* | | *35 - 124* |

**Lab Sample ID: LCSD 180-45542/3-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2050 | | ug/Kg | | 62 | 47 - 104 | 3 | 40 |
| Acenaphthylene | 3330 | 2280 | | ug/Kg | | 68 | 49 - 114 | 1 | 38 |
| Anthracene | 3330 | 2140 | | ug/Kg | | 64 | 45 - 112 | 1 | 42 |
| Benzo[a]anthracene | 3330 | 2120 | | ug/Kg | | 64 | 47 - 110 | 3 | 40 |
| Benzo[a]pyrene | 3330 | 2180 | | ug/Kg | | 65 | 47 - 112 | 1 | 42 |
| Benzo[b]fluoranthene | 3330 | 1940 | | ug/Kg | | 58 | 41 - 107 | 0 | 53 |
| Benzo[g,h,i]perylene | 3330 | 2110 | | ug/Kg | | 63 | 38 - 126 | 3 | 43 |
| Benzo[k]fluoranthene | 3330 | 2120 | | ug/Kg | | 64 | 44 - 115 | 4 | 44 |
| Bis(2-chloroethyl)ether | 3330 | 1940 | | ug/Kg | | 58 | 38 - 99 | 3 | 43 |
| Bis(2-chloroethoxy)methane | 3330 | 2040 | | ug/Kg | | 61 | 44 - 101 | 4 | 36 |
| bis (2-chloroisopropyl) ether | 3330 | 1890 | | ug/Kg | | 57 | 36 - 101 | 2 | 41 |
| Bis(2-ethylhexyl) phthalate | 3330 | 2020 | | ug/Kg | | 61 | 40 - 122 | 0 | 41 |
| 4-Bromophenyl phenyl ether | 3330 | 2020 | | ug/Kg | | 61 | 47 - 110 | 1 | 46 |
| Butyl benzyl phthalate | 3330 | 2070 | | ug/Kg | | 62 | 41 - 118 | 1 | 41 |
| Carbazole | 3330 | 2110 | | ug/Kg | | 63 | 45 - 114 | 3 | 36 |
| 4-Chloroaniline | 3330 | 2150 | | ug/Kg | | 65 | 25 - 108 | 1 | 36 |
| 2-Chloronaphthalene | 3330 | 2040 | | ug/Kg | | 61 | 46 - 101 | 3 | 40 |
| 4-Chlorophenyl phenyl ether | 3330 | 2170 | | ug/Kg | | 65 | 47 - 109 | 2 | 39 |
| Chrysene | 3330 | 2150 | | ug/Kg | | 65 | 46 - 111 | 4 | 39 |
| Dibenz(a,h)anthracene | 3330 | 2140 | | ug/Kg | | 64 | 39 - 127 | 1 | 45 |
| Dibenzofuran | 3330 | 2070 | | ug/Kg | | 62 | 46 - 104 | 1 | 38 |
| Di-n-butyl phthalate | 3330 | 2150 | | ug/Kg | | 64 | 43 - 121 | 1 | 38 |
| 3,3'-Dichlorobenzidine | 3330 | 2150 | | ug/Kg | | 65 | 19 - 122 | 3 | 40 |
| Diethyl phthalate | 3330 | 2140 | | ug/Kg | | 64 | 47 - 115 | 3 | 38 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45542/3-A**
**Matrix: Solid**
**Analysis Batch: 45682**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45542**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimethyl phthalate | | | 3330 | 2130 | | ug/Kg | | 64 | 49 - 111 | 2 | 37 |
| 2,4-Dinitrotoluene | | | 3330 | 2200 | | ug/Kg | | 66 | 45 - 124 | 6 | 41 |
| 2,6-Dinitrotoluene | | | 3330 | 2260 | | ug/Kg | | 68 | 50 - 122 | 2 | 40 |
| Di-n-octyl phthalate | | | 3330 | 2040 | | ug/Kg | | 61 | 33 - 129 | 2 | 41 |
| Fluoranthene | | | 3330 | 2230 | | ug/Kg | | 67 | 40 - 120 | 3 | 36 |
| Fluorene | | | 3330 | 2180 | | ug/Kg | | 65 | 46 - 109 | 2 | 40 |
| Hexachlorobenzene | | | 3330 | 2170 | | ug/Kg | | 65 | 47 - 108 | 3 | 43 |
| Hexachlorobutadiene | | | 3330 | 1950 | | ug/Kg | | 58 | 43 - 107 | 1 | 39 |
| Hexachlorocyclopentadiene | | | 3330 | 2110 | | ug/Kg | | 63 | 23 - 129 | 1 | 49 |
| Hexachloroethane | | | 3330 | 1850 | | ug/Kg | | 55 | 37 - 97 | 2 | 48 |
| Indeno[1,2,3-cd]pyrene | | | 3330 | 2080 | | ug/Kg | | 62 | 41 - 125 | 1 | 47 |
| Isophorone | | | 3330 | 2120 | | ug/Kg | | 64 | 47 - 110 | 2 | 37 |
| 2-Methylnaphthalene | | | 3330 | 2050 | | ug/Kg | | 62 | 45 - 100 | 2 | 40 |
| Naphthalene | | | 3330 | 1990 | | ug/Kg | | 60 | 43 - 100 | 1 | 32 |
| 2-Nitroaniline | | | 3330 | 1960 | | ug/Kg | | 59 | 45 - 117 | 4 | 42 |
| 3-Nitroaniline | | | 3330 | 2140 | | ug/Kg | | 64 | 34 - 122 | 3 | 39 |
| 4-Nitroaniline | | | 3330 | 2330 | | ug/Kg | | 70 | 38 - 123 | 3 | 40 |
| Nitrobenzene | | | 3330 | 1950 | | ug/Kg | | 58 | 43 - 104 | 0 | 33 |
| N-Nitrosodi-n-propylamine | | | 3330 | 1970 | | ug/Kg | | 59 | 42 - 107 | 0 | 43 |
| N-Nitrosodiphenylamine | | | 3330 | 2160 | | ug/Kg | | 65 | 44 - 111 | 0 | 40 |
| Phenanthrene | | | 3330 | 2070 | | ug/Kg | | 62 | 43 - 108 | 2 | 39 |
| Pyrene | | | 3330 | 2020 | | ug/Kg | | 61 | 41 - 115 | 5 | 43 |
| 4-Chloro-3-methylphenol | | | 3330 | 1910 | | ug/Kg | | 57 | 47 - 109 | 2 | 36 |
| 2-Chlorophenol | | | 3330 | 1980 | | ug/Kg | | 59 | 40 - 101 | 2 | 42 |
| 2-Methylphenol | | | 3330 | 1970 | | ug/Kg | | 59 | 40 - 104 | 2 | 41 |
| 2,4-Dichlorophenol | | | 3330 | 2060 | | ug/Kg | | 62 | 47 - 105 | 3 | 35 |
| 2,4-Dimethylphenol | | | 3330 | 1950 | | ug/Kg | | 59 | 44 - 105 | 1 | 49 |
| 2,4-Dinitrophenol | | | 3330 | 1720 | | ug/Kg | | 52 | 10 - 146 | 3 | 83 |
| 4,6-Dinitro-2-methylphenol | | | 3330 | 1910 | | ug/Kg | | 57 | 24 - 134 | 2 | 87 |
| 2-Nitrophenol | | | 3330 | 2060 | | ug/Kg | | 62 | 46 - 106 | 5 | 39 |
| 4-Nitrophenol | | | 3330 | 1940 | | ug/Kg | | 58 | 36 - 127 | 3 | 43 |
| Pentachlorophenol | | | 3330 | 1550 | | ug/Kg | | 47 | 17 - 122 | 0 | 52 |
| Phenol | | | 3330 | 1930 | | ug/Kg | | 58 | 41 - 102 | 4 | 39 |
| 2,4,5-Trichlorophenol | | | 3330 | 1970 | | ug/Kg | | 59 | 48 - 108 | 0 | 44 |
| 2,4,6-Trichlorophenol | | | 3330 | 2010 | | ug/Kg | | 60 | 50 - 106 | 1 | 42 |
| Methylphenol, 3 & 4 | | | 6670 | 4240 | | ug/Kg | | 64 | 42 - 105 | 3 | 43 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *58* | | *25 - 104* |
| *2-Fluorobiphenyl* | *60* | | *35 - 105* |
| *Terphenyl-d14* | *64* | | *25 - 127* |
| *Phenol-d5* | *61* | | *25 - 105* |
| *2-Fluorophenol* | *57* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *62* | | *35 - 124* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-247175/8**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 10:57 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/20/12 10:57* | *1* |

**Lab Sample ID: LCS 680-247175/9**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.200 | 0.198 | | mg/L | | 99 | 70 - 148 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* |

**Lab Sample ID: LCSD 680-247175/2**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.200 | 0.206 | | mg/L | | 103 | 70 - 148 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 130* |

**Lab Sample ID: MB 680-247361/3**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/21/12 11:18 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/21/12 11:18* | *1* |

**Lab Sample ID: LCS 680-247361/4**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 1.00 | 0.967 | | mg/Kg | | 97 | 64 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247361/5**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.907 | | mg/Kg | | 91 | 64 - 133 | 6 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

**Lab Sample ID: MB 680-247420/23**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/21/12 19:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/21/12 19:05* | *1* |

**Lab Sample ID: MB 680-247420/3**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 5.0 | 0.38 | mg/Kg | | | 08/21/12 19:25 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* | | *08/21/12 19:25* | *20* |

**Lab Sample ID: LCS 680-247420/4**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 34.1 | | mg/Kg | | 85 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

**Lab Sample ID: LCS 680-247420/5**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.892 | | mg/Kg | | 89 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247420/6**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.996 | | mg/Kg | | 100 | 64 - 133 | 11 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247420/7**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 32.6 | | mg/Kg | | 82 | 64 - 133 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-246466/8-A**
**Matrix: Water**
**Analysis Batch: 247429**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246466**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 08/13/12 15:26 | 08/21/12 21:11 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *88* | | *62 - 130* | *08/13/12 15:26* | *08/21/12 21:11* | *1* |

**Lab Sample ID: LCS 680-246466/9-A**
**Matrix: Water**
**Analysis Batch: 247429**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246466**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 1.00 | 0.558 | | mg/L | | 56 | 25 - 145 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *74* | | *62 - 130* |

**Lab Sample ID: MB 680-246523/20-A**
**Matrix: Solid**
**Analysis Batch: 247459**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246523**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/14/12 11:27 | 08/21/12 15:29 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 680-246523/20-A**
**Matrix: Solid**
**Analysis Batch: 247459**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246523**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 69 | | 56 - 135 | 08/14/12 11:27 | 08/21/12 15:29 | 1 |

**Lab Sample ID: LCS 680-246523/21-A**
**Matrix: Solid**
**Analysis Batch: 247459**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246523**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 33.2 | 23.5 | | mg/Kg | | 71 | 19 - 171 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 73 | | 56 - 135 |

**Lab Sample ID: MB 680-247576/10-A**
**Matrix: Solid**
**Analysis Batch: 247699**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247576**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/23/12 15:05 | 08/24/12 12:27 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 79 | | 56 - 135 | 08/23/12 15:05 | 08/24/12 12:27 | 1 |

**Lab Sample ID: LCS 680-247576/11-A**
**Matrix: Solid**
**Analysis Batch: 247699**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247576**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 32.9 | 24.7 | | mg/Kg | | 75 | 19 - 171 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 80 | | 56 - 135 |

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 180-44616/1-A**
**Matrix: Water**
**Analysis Batch: 45885**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 0.050 | 0.027 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| 4,4'-DDE | ND | | 0.050 | 0.032 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| 4,4'-DDT | ND | | 0.050 | 0.030 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Aldrin | ND | | 0.050 | 0.033 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| alpha-BHC | ND | | 0.050 | 0.027 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| alpha-Chlordane | ND | | 0.050 | 0.039 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| beta-BHC | ND | | 0.050 | 0.040 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| delta-BHC | ND | | 0.050 | 0.017 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: MB 180-44616/1-A**
**Matrix: Water**
**Analysis Batch: 45885**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dieldrin | ND | | 0.050 | 0.033 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Endosulfan I | ND | | 0.050 | 0.038 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Endosulfan II | ND | | 0.050 | 0.039 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Endosulfan sulfate | ND | | 0.050 | 0.023 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Endrin | ND | | 0.050 | 0.039 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Endrin aldehyde | ND | | 0.050 | 0.036 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Endrin ketone | ND | | 0.050 | 0.037 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| gamma-BHC (Lindane) | ND | | 0.050 | 0.032 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| gamma-Chlordane | ND | | 0.050 | 0.039 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Heptachlor | ND | | 0.050 | 0.040 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Heptachlor epoxide | ND | | 0.050 | 0.039 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Methoxychlor | ND | | 0.10 | 0.037 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |
| Toxaphene | ND | | 4.0 | 0.74 | ug/L | | 08/10/12 13:00 | 08/20/12 22:22 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *79* | | *45 - 130* | *08/10/12 13:00* | *08/20/12 22:22* | *1* |
| *Tetrachloro-m-xylene* | *80* | | *45 - 130* | *08/10/12 13:00* | *08/20/12 22:22* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *78* | | *45 - 130* | *08/10/12 13:00* | *08/20/12 22:22* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *80* | | *45 - 130* | *08/10/12 13:00* | *08/20/12 22:22* | *1* |

**Lab Sample ID: LCS 180-44616/2-A**
**Matrix: Water**
**Analysis Batch: 45885**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1.00 | 0.897 | | ug/L | | 90 | 76 - 128 |
| 4,4'-DDE | 1.00 | 0.906 | | ug/L | | 91 | 74 - 125 |
| 4,4'-DDT | 1.00 | 0.898 | | ug/L | | 90 | 62 - 120 |
| Aldrin | 1.00 | 0.900 | | ug/L | | 90 | 69 - 121 |
| alpha-BHC | 1.00 | 0.867 | | ug/L | | 87 | 55 - 133 |
| alpha-Chlordane | 1.00 | 0.881 | | ug/L | | 88 | 67 - 127 |
| beta-BHC | 1.00 | 0.880 | | ug/L | | 88 | 71 - 129 |
| delta-BHC | 1.00 | 0.841 | | ug/L | | 84 | 30 - 137 |
| Dieldrin | 1.00 | 0.912 | | ug/L | | 91 | 76 - 119 |
| Endosulfan I | 1.00 | 0.861 | | ug/L | | 86 | 72 - 123 |
| Endosulfan II | 1.00 | 0.775 | | ug/L | | 78 | 72 - 122 |
| Endosulfan sulfate | 1.00 | 0.890 | | ug/L | | 89 | 58 - 129 |
| Endrin | 1.00 | 0.918 | | ug/L | | 92 | 70 - 125 |
| Endrin aldehyde | 1.00 | 0.938 | | ug/L | | 94 | 61 - 116 |
| Endrin ketone | 1.00 | 0.896 | | ug/L | | 90 | 73 - 123 |
| gamma-BHC (Lindane) | 1.00 | 0.852 | | ug/L | | 85 | 63 - 123 |
| gamma-Chlordane | 1.00 | 0.887 | | ug/L | | 89 | 65 - 121 |
| Heptachlor | 1.00 | 0.879 | | ug/L | | 88 | 65 - 127 |
| Heptachlor epoxide | 1.00 | 0.876 | | ug/L | | 88 | 71 - 122 |
| Methoxychlor | 1.00 | 0.922 | | ug/L | | 92 | 59 - 143 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *86* | | *45 - 130* |
| *Tetrachloro-m-xylene* | *86* | | *45 - 130* |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 180-44616/2-A**
**Matrix: Water**
**Analysis Batch: 45885**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl (Surr) | 86 | | 45 - 130 |
| DCB Decachlorobiphenyl (Surr) | 85 | | 45 - 130 |

**Lab Sample ID: LCSD 180-44616/3-A**
**Matrix: Water**
**Analysis Batch: 45885**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | | | 1.00 | 1.01 | | ug/L | | 101 | 76 - 128 | 12 | 24 |
| 4,4'-DDE | | | 1.00 | 0.995 | | ug/L | | 100 | 74 - 125 | 9 | 20 |
| 4,4'-DDT | | | 1.00 | 0.983 | | ug/L | | 98 | 62 - 120 | 9 | 24 |
| Aldrin | | | 1.00 | 0.981 | | ug/L | | 98 | 69 - 121 | 9 | 22 |
| alpha-BHC | | | 1.00 | 0.950 | | ug/L | | 95 | 55 - 133 | 9 | 20 |
| alpha-Chlordane | | | 1.00 | 0.979 | | ug/L | | 98 | 67 - 127 | 11 | 21 |
| beta-BHC | | | 1.00 | 0.957 | | ug/L | | 96 | 71 - 129 | 8 | 24 |
| delta-BHC | | | 1.00 | 0.919 | | ug/L | | 92 | 30 - 137 | 9 | 26 |
| Dieldrin | | | 1.00 | 1.00 | | ug/L | | 100 | 76 - 119 | 9 | 20 |
| Endosulfan I | | | 1.00 | 0.975 | | ug/L | | 97 | 72 - 123 | 12 | 22 |
| Endosulfan II | | | 1.00 | 0.944 | | ug/L | | 94 | 72 - 122 | 20 | 21 |
| Endosulfan sulfate | | | 1.00 | 0.981 | | ug/L | | 98 | 58 - 129 | 10 | 21 |
| Endrin | | | 1.00 | 1.01 | | ug/L | | 101 | 70 - 125 | 9 | 24 |
| Endrin aldehyde | | | 1.00 | 1.04 | | ug/L | | 104 | 61 - 116 | 10 | 25 |
| Endrin ketone | | | 1.00 | 0.978 | | ug/L | | 98 | 73 - 123 | 9 | 20 |
| gamma-BHC (Lindane) | | | 1.00 | 0.930 | | ug/L | | 93 | 63 - 123 | 9 | 21 |
| gamma-Chlordane | | | 1.00 | 0.968 | | ug/L | | 97 | 65 - 121 | 9 | 21 |
| Heptachlor | | | 1.00 | 0.968 | | ug/L | | 97 | 65 - 127 | 10 | 25 |
| Heptachlor epoxide | | | 1.00 | 0.961 | | ug/L | | 96 | 71 - 122 | 9 | 20 |
| Methoxychlor | | | 1.00 | 0.988 | | ug/L | | 99 | 59 - 143 | 7 | 27 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| Tetrachloro-m-xylene | 81 | | 45 - 130 |
| Tetrachloro-m-xylene | 80 | | 45 - 130 |
| DCB Decachlorobiphenyl (Surr) | 84 | | 45 - 130 |
| DCB Decachlorobiphenyl (Surr) | 83 | | 45 - 130 |

**Lab Sample ID: MB 180-45544/1-A**
**Matrix: Solid**
**Analysis Batch: 46726**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45544**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 1.7 | 0.22 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| 4,4'-DDE | ND | | 1.7 | 0.25 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| 4,4'-DDT | ND | | 1.7 | 0.25 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Aldrin | ND | | 1.7 | 0.30 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| alpha-BHC | ND | | 1.7 | 0.27 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| alpha-Chlordane | ND | | 1.7 | 0.33 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| beta-BHC | ND | | 1.7 | 0.43 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| delta-BHC | ND | | 1.7 | 0.26 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Dieldrin | ND | | 1.7 | 0.28 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: MB 180-45544/1-A**
**Matrix: Solid**
**Analysis Batch: 46726**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45544**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Endosulfan I | ND | | 1.7 | 0.31 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Endosulfan II | ND | | 1.7 | 0.29 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Endosulfan sulfate | ND | | 1.7 | 0.17 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Endrin | ND | | 1.7 | 0.32 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Endrin aldehyde | ND | | 1.7 | 0.32 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Endrin ketone | ND | | 1.7 | 0.26 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| gamma-BHC (Lindane) | ND | | 1.7 | 0.29 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| gamma-Chlordane | ND | | 1.7 | 0.33 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Heptachlor | ND | | 1.7 | 0.37 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Heptachlor epoxide | ND | | 1.7 | 0.32 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Methoxychlor | ND | | 3.3 | 0.35 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |
| Toxaphene | ND | | 67 | 11 | ug/Kg | | 08/20/12 07:31 | 08/27/12 19:44 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *81* | | *45 - 130* | *08/20/12 07:31* | *08/27/12 19:44* | *1* |
| *Tetrachloro-m-xylene* | *80* | | *45 - 130* | *08/20/12 07:31* | *08/27/12 19:44* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *82* | | *45 - 130* | *08/20/12 07:31* | *08/27/12 19:44* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *83* | | *45 - 130* | *08/20/12 07:31* | *08/27/12 19:44* | *1* |

**Lab Sample ID: LCS 180-45544/2-A**
**Matrix: Solid**
**Analysis Batch: 46726**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45544**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 33.3 | 41.2 | | ug/Kg | | 124 | 70 - 135 |
| 4,4'-DDE | 33.3 | 36.1 | | ug/Kg | | 108 | 70 - 133 |
| 4,4'-DDT | 33.3 | 30.5 | | ug/Kg | | 91 | 61 - 126 |
| Aldrin | 33.3 | 31.2 | | ug/Kg | | 94 | 70 - 123 |
| alpha-BHC | 33.3 | 31.5 | | ug/Kg | | 95 | 59 - 127 |
| alpha-Chlordane | 33.3 | 34.7 | | ug/Kg | | 104 | 71 - 130 |
| beta-BHC | 33.3 | 34.9 | | ug/Kg | | 105 | 70 - 138 |
| delta-BHC | 33.3 | 34.3 | | ug/Kg | | 103 | 40 - 124 |
| Dieldrin | 33.3 | 36.2 | | ug/Kg | | 109 | 70 - 123 |
| Endosulfan I | 33.3 | 34.9 | | ug/Kg | | 105 | 70 - 126 |
| Endosulfan II | 33.3 | 36.1 | | ug/Kg | | 108 | 70 - 128 |
| Endosulfan sulfate | 33.3 | 33.9 | | ug/Kg | | 102 | 55 - 140 |
| Endrin | 33.3 | 38.0 | | ug/Kg | | 114 | 70 - 127 |
| Endrin aldehyde | 33.3 | 35.4 | | ug/Kg | | 106 | 65 - 122 |
| Endrin ketone | 33.3 | 33.2 | | ug/Kg | | 100 | 70 - 132 |
| gamma-BHC (Lindane) | 33.3 | 30.6 | | ug/Kg | | 92 | 66 - 124 |
| gamma-Chlordane | 33.3 | 35.3 | | ug/Kg | | 106 | 68 - 123 |
| Heptachlor | 33.3 | 34.7 | | ug/Kg | | 104 | 70 - 128 |
| Heptachlor epoxide | 33.3 | 33.6 | | ug/Kg | | 101 | 69 - 131 |
| Methoxychlor | 33.3 | 31.1 | | ug/Kg | | 93 | 70 - 143 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *93* | | *45 - 130* |
| *Tetrachloro-m-xylene* | *93* | | *45 - 130* |
| *DCB Decachlorobiphenyl (Surr)* | *98* | | *45 - 130* |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: LCS 180-45544/2-A**
**Matrix: Solid**
**Analysis Batch: 46726**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45544**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| DCB Decachlorobiphenyl (Surr) | 98 | | 45 - 130 |

**Lab Sample ID: 180-13260-2 MS**
**Matrix: Solid**
**Analysis Batch: 46726**

**Client Sample ID: 07W@1-3'**
**Prep Type: Total/NA**
**Prep Batch: 45544**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1.8 | J p | 41.3 | 24.8 | F p | ug/Kg | ☼ | 56 | 70 - 135 |
| 4,4'-DDE | 4.5 | | 41.3 | 41.3 | | ug/Kg | ☼ | 100 | 70 - 133 |
| 4,4'-DDT | 87 | | 41.3 | 111 | F | ug/Kg | ☼ | 59 | 61 - 126 |
| Aldrin | ND | | 41.3 | 30.5 | | ug/Kg | ☼ | 74 | 70 - 123 |
| alpha-BHC | ND | | 41.3 | 24.5 | | ug/Kg | ☼ | 59 | 59 - 127 |
| alpha-Chlordane | ND | | 41.3 | 34.4 | | ug/Kg | ☼ | 83 | 71 - 130 |
| beta-BHC | ND | | 41.3 | 31.0 | | ug/Kg | ☼ | 75 | 70 - 138 |
| delta-BHC | ND | | 41.3 | 6.26 | J F p | ug/Kg | ☼ | 15 | 40 - 124 |
| Dieldrin | 20 | | 41.3 | 50.8 | | ug/Kg | ☼ | 74 | 70 - 123 |
| Endosulfan I | ND | | 41.3 | 34.1 | | ug/Kg | ☼ | 83 | 70 - 126 |
| Endosulfan II | 10 | J p | 41.3 | 29.0 | F p | ug/Kg | ☼ | 46 | 70 - 128 |
| Endosulfan sulfate | 41 | p | 41.3 | 49.3 | | ug/Kg | ☼ | 56 | 55 - 140 |
| Endrin | 52 | J p | 41.3 | 26.9 | F p | ug/Kg | ☼ | 55 | 70 - 127 |
| Endrin aldehyde | ND | | 41.3 | 10.4 | J F | ug/Kg | ☼ | 25 | 65 - 122 |
| Endrin ketone | 18 | p | 41.3 | 48.9 | p | ug/Kg | ☼ | 75 | 70 - 132 |
| gamma-BHC (Lindane) | ND | | 41.3 | 21.2 | F | ug/Kg | ☼ | 51 | 66 - 124 |
| gamma-Chlordane | 6.5 | | 41.3 | 35.8 | | ug/Kg | ☼ | 87 | 68 - 123 |
| Heptachlor | 61 | | 41.3 | 40.0 | | ug/Kg | ☼ | 97 | 70 - 128 |
| Heptachlor epoxide | 8.5 | | 41.3 | 41.2 | | ug/Kg | ☼ | 100 | 69 - 131 |
| Methoxychlor | 26 | p | 41.3 | 44.6 | F | ug/Kg | ☼ | 46 | 70 - 143 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| Tetrachloro-m-xylene | 43 | X | 45 - 130 |
| Tetrachloro-m-xylene | 39 | X | 45 - 130 |
| DCB Decachlorobiphenyl (Surr) | 119 | | 45 - 130 |
| DCB Decachlorobiphenyl (Surr) | 89 | | 45 - 130 |

**Lab Sample ID: 180-13260-2 MSD**
**Matrix: Solid**
**Analysis Batch: 46726**

**Client Sample ID: 07W@1-3'**
**Prep Type: Total/NA**
**Prep Batch: 45544**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | 1.8 | J p | 40.8 | 29.0 | p F | ug/Kg | ☼ | 67 | 70 - 135 | 16 | 20 |
| 4,4'-DDE | 4.5 | | 40.8 | 51.3 | F | ug/Kg | ☼ | 126 | 70 - 133 | 22 | 20 |
| 4,4'-DDT | 87 | | 40.8 | 135 | | ug/Kg | ☼ | 117 | 61 - 126 | 19 | 37 |
| Aldrin | ND | | 40.8 | 34.7 | | ug/Kg | ☼ | 85 | 70 - 123 | 13 | 20 |
| alpha-BHC | ND | | 40.8 | 25.4 | | ug/Kg | ☼ | 62 | 59 - 127 | 4 | 20 |
| alpha-Chlordane | ND | | 40.8 | 39.5 | | ug/Kg | ☼ | 97 | 71 - 130 | 14 | 20 |
| beta-BHC | ND | | 40.8 | 36.0 | | ug/Kg | ☼ | 88 | 70 - 138 | 15 | 20 |
| delta-BHC | ND | | 40.8 | 5.21 | J p F | ug/Kg | ☼ | 13 | 40 - 124 | 18 | 20 |
| Dieldrin | 20 | | 40.8 | 58.1 | | ug/Kg | ☼ | 93 | 70 - 123 | 14 | 20 |
| Endosulfan I | ND | | 40.8 | 40.3 | | ug/Kg | ☼ | 99 | 70 - 126 | 17 | 23 |

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID: 180-13260-2 MSD**
**Matrix: Solid**
**Analysis Batch: 46726**

**Client Sample ID: 07W@1-3'**
**Prep Type: Total/NA**
**Prep Batch: 45544**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Endosulfan II | 10 | J p | 40.8 | 33.7 | p F | ug/Kg | ☼ | 58 | 70 - 128 | 15 | 33 |
| Endosulfan sulfate | 41 | p | 40.8 | 58.1 | | ug/Kg | ☼ | 78 | 55 - 140 | 16 | 26 |
| Endrin | 52 | J p | 40.8 | 26.3 | p F | ug/Kg | ☼ | 54 | 70 - 127 | 2 | 20 |
| Endrin aldehyde | ND | | 40.8 | 10.4 | p F | ug/Kg | ☼ | 25 | 65 - 122 | 0 | 20 |
| Endrin ketone | 18 | p | 40.8 | 63.5 | p F | ug/Kg | ☼ | 111 | 70 - 132 | 26 | 20 |
| gamma-BHC (Lindane) | ND | | 40.8 | 22.2 | F | ug/Kg | ☼ | 54 | 66 - 124 | 4 | 20 |
| gamma-Chlordane | 6.5 | | 40.8 | 41.3 | | ug/Kg | ☼ | 101 | 68 - 123 | 14 | 24 |
| Heptachlor | ND | | 40.8 | 32.3 | p F | ug/Kg | ☼ | 79 | 70 - 128 | 21 | 20 |
| Heptachlor epoxide | 8.5 | | 40.8 | 47.7 | | ug/Kg | ☼ | 117 | 69 - 131 | 15 | 20 |
| Methoxychlor | 26 | p | 40.8 | 56.9 | p | ug/Kg | ☼ | 77 | 70 - 143 | 24 | 26 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *52* | | *45 - 130* |
| *Tetrachloro-m-xylene* | *51* | | *45 - 130* |
| *DCB Decachlorobiphenyl (Surr)* | *118* | | *45 - 130* |
| *DCB Decachlorobiphenyl (Surr)* | *126* | | *45 - 130* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-44616/1-A**
**Matrix: Water**
**Analysis Batch: 45553**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.40 | 0.10 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1221 | ND | | 0.40 | 0.10 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1232 | ND | | 0.40 | 0.12 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1242 | ND | | 0.40 | 0.074 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1248 | ND | | 0.40 | 0.091 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1254 | ND | | 0.40 | 0.092 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |
| PCB-1260 | ND | | 0.40 | 0.054 | ug/L | | 08/10/12 13:00 | 08/18/12 02:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *96* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 02:45* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *96* | | *35 - 140* | *08/10/12 13:00* | *08/18/12 02:45* | *1* |

**Lab Sample ID: LCS 180-44616/4-A**
**Matrix: Water**
**Analysis Batch: 45553**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 40.0 | 36.4 | | ug/L | | 91 | 60 - 130 | | |
| PCB-1260 | | | 40.0 | 41.2 | | ug/L | | 103 | 60 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *97* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *96* | | *35 - 140* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCSD 180-44616/5-A**
**Matrix: Water**
**Analysis Batch: 45553**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44616**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 40.0 | 36.4 | | ug/L | | 91 | 60 - 130 | 0 | 27 |
| PCB-1260 | | | 40.0 | 41.0 | | ug/L | | 103 | 60 - 130 | 0 | 24 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *97* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *95* | | *35 - 140* |

**Lab Sample ID: MB 180-45454/1-A**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 17:18 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *82* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 17:18* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 17:18* | *1* |

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 16:21* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 16:21* | *1* |

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46972**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46972**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *94* | | *35 - 140* | *08/18/12 05:50* | *08/30/12 11:52* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *78* | | *35 - 140* | *08/18/12 05:50* | *08/30/12 11:52* | *1* |

**Lab Sample ID: LCS 180-45454/2-A**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 1330 | 1020 | | ug/Kg | | 77 | 55 - 130 |
| PCB-1260 | 1330 | 1100 | | ug/Kg | | 83 | 54 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *92* | | *35 - 140* |

**Lab Sample ID: LCS 180-45454/2-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 1330 | 1030 | | ug/Kg | | 77 | 55 - 130 |
| PCB-1260 | 1330 | 1090 | | ug/Kg | | 82 | 54 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* |

## Method: 8151A - Herbicides (GC)

**Lab Sample ID: MB 180-44632/1-A**
**Matrix: Water**
**Analysis Batch: 46394**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44632**

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *68* | | *32 - 140* | *08/10/12 18:00* | *08/27/12 15:57* | *20* |

**Lab Sample ID: MB 180-44632/1-A**
**Matrix: Water**
**Analysis Batch: 46393**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44632**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | ND | | 4.0 | 0.45 | ug/L | | 08/10/12 18:00 | 08/27/12 16:23 | 20 |

## Method: 8151A - Herbicides (GC) (Continued)

**Lab Sample ID: MB 180-44632/1-A**
**Matrix: Water**
**Analysis Batch: 46393**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44632**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-T | ND | | 1.0 | 0.097 | ug/L | | 08/10/12 18:00 | 08/27/12 16:23 | 20 |
| Silvex (2,4,5-TP) | ND | | 1.0 | 0.11 | ug/L | | 08/10/12 18:00 | 08/27/12 16:23 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *73* | | *32 - 140* | *08/10/12 18:00* | *08/27/12 16:23* | *20* |

**Lab Sample ID: LCS 180-44632/2-A**
**Matrix: Water**
**Analysis Batch: 46394**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44632**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *112* | | *32 - 140* |

**Lab Sample ID: LCS 180-44632/2-A**
**Matrix: Water**
**Analysis Batch: 46393**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44632**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | | | 16.0 | 19.1 | | ug/L | | 119 | 32 - 140 | | |
| 2,4,5-T | | | 4.00 | 5.01 | | ug/L | | 125 | 32 - 140 | | |
| Silvex (2,4,5-TP) | | | 4.00 | 4.30 | | ug/L | | 107 | 32 - 140 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *119* | | *32 - 140* |

**Lab Sample ID: LCSD 180-44632/3-A**
**Matrix: Water**
**Analysis Batch: 46394**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44632**

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *104* | | *32 - 140* |

**Lab Sample ID: LCSD 180-44632/3-A**
**Matrix: Water**
**Analysis Batch: 46393**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44632**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | | | 16.0 | 17.9 | | ug/L | | 112 | 32 - 140 | 7 | 30 |
| 2,4,5-T | | | 4.00 | 4.63 | | ug/L | | 116 | 32 - 140 | 8 | 30 |
| Silvex (2,4,5-TP) | | | 4.00 | 4.10 | | ug/L | | 102 | 32 - 140 | 5 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *110* | | *32 - 140* |

## Method: 8151A - Herbicides (GC) (Continued)

**Lab Sample ID: MB 180-45494/1-A**
**Matrix: Solid**
**Analysis Batch: 46947**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45494**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *76* | | *42 - 140* | *08/18/12 17:23* | *08/30/12 03:55* | *20* |

**Lab Sample ID: MB 180-45494/1-A**
**Matrix: Solid**
**Analysis Batch: 46969**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45494**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | ND | | 80 | 5.5 | ug/Kg | | 08/18/12 17:23 | 08/30/12 04:20 | 20 |
| 2,4,5-T | ND | | 20 | 2.5 | ug/Kg | | 08/18/12 17:23 | 08/30/12 04:20 | 20 |
| Silvex (2,4,5-TP) | ND | | 20 | 2.1 | ug/Kg | | 08/18/12 17:23 | 08/30/12 04:20 | 20 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *80* | | *42 - 140* | *08/18/12 17:23* | *08/30/12 04:20* | *20* |

**Lab Sample ID: LCS 180-45494/2-A**
**Matrix: Solid**
**Analysis Batch: 46947**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45494**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *110* | | *42 - 140* |

**Lab Sample ID: LCS 180-45494/2-A**
**Matrix: Solid**
**Analysis Batch: 46969**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45494**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2,4-D | 320 | 368 | | ug/Kg | | 115 | 30 - 140 |
| 2,4,5-T | 80.0 | 91.4 | | ug/Kg | | 114 | 30 - 140 |
| Silvex (2,4,5-TP) | 80.0 | 76.1 | | ug/Kg | | 95 | 40 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *2,4-Dichlorophenylacetic acid* | *109* | | *42 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 180-44835/1-A**
**Matrix: Water**
**Analysis Batch: 46183**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44835**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 10 | 2.7 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Barium | ND | | 200 | 0.62 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Chromium | ND | | 5.0 | 0.57 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Lead | ND | | 3.0 | 1.3 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LCS 180-44835/2-A**
**Matrix: Water**
**Analysis Batch: 46183**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44835**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 500 | 492 | | ug/L | | 98 | 80 - 120 |
| Barium | 2000 | 1930 | | ug/L | | 96 | 80 - 120 |
| Cadmium | 50.0 | 48.0 | | ug/L | | 96 | 80 - 120 |
| Chromium | 200 | 194 | | ug/L | | 97 | 80 - 120 |
| Lead | 500 | 488 | | ug/L | | 98 | 80 - 120 |
| Selenium | 500 | 486 | | ug/L | | 97 | 80 - 120 |
| Silver | 50.0 | 49.9 | | ug/L | | 100 | 80 - 120 |

**Lab Sample ID: MB 180-44845/1-A**
**Matrix: Solid**
**Analysis Batch: 45042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44845**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 1.0 | 0.22 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Barium | ND | | 20 | 0.050 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Cadmium | ND | | 0.50 | 0.024 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Chromium | ND | | 0.50 | 0.085 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Lead | ND | | 0.30 | 0.15 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Selenium | ND | | 0.50 | 0.21 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Silver | ND | | 0.50 | 0.058 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |

**Lab Sample ID: LCS 180-44845/2-A**
**Matrix: Solid**
**Analysis Batch: 45042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44845**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 50.0 | 48.0 | | mg/Kg | | 96 | 80 - 120 |
| Barium | 200 | 185 | | mg/Kg | | 92 | 80 - 120 |
| Cadmium | 5.00 | 4.61 | | mg/Kg | | 92 | 80 - 120 |
| Chromium | 20.0 | 18.6 | | mg/Kg | | 93 | 80 - 120 |
| Lead | 50.0 | 47.1 | | mg/Kg | | 94 | 80 - 120 |
| Selenium | 50.0 | 49.0 | | mg/Kg | | 98 | 80 - 120 |
| Silver | 5.00 | 4.63 | | mg/Kg | | 93 | 80 - 120 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-46382/1-A**
**Matrix: Water**
**Analysis Batch: 46478**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46382**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/27/12 09:05 | 08/27/12 14:35 | 1 |

**Lab Sample ID: LCS 180-46382/2-A**
**Matrix: Water**
**Analysis Batch: 46478**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46382**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.50 | 2.41 | | ug/L | | 96 | 80 - 120 |

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 180-46481/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46514** — **Prep Batch: 46481**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.033 | 0.011 | mg/Kg | | 08/27/12 15:36 | 08/27/12 20:30 | 1 |

**Lab Sample ID: LCS 180-46481/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46514** — **Prep Batch: 46481**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.417 | 0.415 | | mg/Kg | | 100 | 80 - 120 |

## Method: 1664A - HEM and SGT-HEM

**Lab Sample ID: MB 180-46415/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46462** — **Prep Batch: 46415**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.0 | 1.5 | mg/L | | 08/27/12 10:56 | 08/27/12 10:56 | 1 |

**Lab Sample ID: LCS 180-46415/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46462** — **Prep Batch: 46415**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 38.3 | | mg/L | | 96 | 78 - 114 |

**Lab Sample ID: LCSD 180-46415/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46462** — **Prep Batch: 46415**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 38.1 | | mg/L | | 95 | 78 - 114 | 1 | 18 |

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 680-247588/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 247590** — **Prep Batch: 247588**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |

**Lab Sample ID: LCS 680-247588/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 247590** — **Prep Batch: 247588**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.0952 | | mg/L | | 97 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.0952 | | mg/L | | 97 | 60 - 140 |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-16979/3-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 16986** — **Prep Batch: 16979**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | ^ | 10 | 7.0 | mg/Kg | | 08/31/12 07:18 | 08/31/12 07:18 | 1 |

**Lab Sample ID: LCS 490-16979/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 16986** — **Prep Batch: 16979**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1010 | ^ | mg/Kg | | 97 | 90 - 110 |

**Lab Sample ID: LCSD 490-16979/2-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 16986** — **Prep Batch: 16979**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1020 | ^ | mg/Kg | | 98 | 90 - 110 | 1 | 20 |

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-46666/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46770** — **Prep Batch: 46666**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 30.0 | J | 170 | 23 | mg/Kg | | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

**Lab Sample ID: LCS 180-46666/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46770** — **Prep Batch: 46666**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1160 | | mg/Kg | | 87 | 78 - 114 |

**Lab Sample ID: LCSD 180-46666/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46770** — **Prep Batch: 46666**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1170 | | mg/Kg | | 88 | 78 - 114 | 1 | 18 |

## Method: Moisture - Percent Moisture

**Lab Sample ID: 180-13260-1 DU** — **Client Sample ID: 13@2-4'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 44601**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | 16 | | % | | 7 | 20 |
| Percent Solids | 85 | | 84 | | % | | 1 | 20 |

## GC/MS VOA

### Analysis Batch: 44724

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-7 | 68W | Total/NA | Water | 8260B | |
| LCS 180-44724/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-44724/7 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-44724/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 45239

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 8260B | |
| 180-13260-8 | TRIP BLANK | Total/NA | Water | 8260B | |
| LCS 180-45239/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-45239/7 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-45239/3 | Method Blank | Total/NA | Water | 8260B | |

### Prep Batch: 45638

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 5030B | |
| LCS 180-45638/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| MB 180-45638/1-A | Method Blank | Total/NA | Solid | 5030B | |

### Analysis Batch: 45696

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8260B | 45638 |
| LCS 180-45638/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 45638 |
| MB 180-45638/1-A | Method Blank | Total/NA | Solid | 8260B | 45638 |

### Prep Batch: 46000

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 5030B | |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 5030B | |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 5030B | |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 5030B | |
| LCS 180-46000/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| MB 180-46000/1-A | Method Blank | Total/NA | Solid | 5030B | |

### Analysis Batch: 46006

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 8260B | 46000 |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 8260B | 46000 |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 8260B | 46000 |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 8260B | 46000 |
| LCS 180-46000/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 46000 |
| MB 180-46000/1-A | Method Blank | Total/NA | Solid | 8260B | 46000 |

## GC/MS Semi VOA

### Prep Batch: 44683

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 3520C | |
| LCS 180-44683/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 180-44683/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 180-44683/1-A | Method Blank | Total/NA | Water | 3520C | |

## GC/MS Semi VOA (Continued)

### Analysis Batch: 45032

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 8270C | 44683 |
| LCS 180-44683/2-A | Lab Control Sample | Total/NA | Water | 8270C | 44683 |
| LCSD 180-44683/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C | 44683 |
| MB 180-44683/1-A | Method Blank | Total/NA | Water | 8270C | 44683 |

### Prep Batch: 45542

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 3541 | |
| LCS 180-45542/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 180-45542/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |
| MB 180-45542/1-A | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 45682

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8270C | 45542 |
| LCS 180-45542/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 45542 |
| LCSD 180-45542/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 45542 |
| MB 180-45542/1-A | Method Blank | Total/NA | Solid | 8270C | 45542 |

## GC VOA

### Analysis Batch: 247175

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 8015B | |
| 180-13260-7 | 68W | Total/NA | Water | 8015B | |
| LCS 680-247175/9 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-247175/2 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-247175/8 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 247361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 8015B | |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 8015B | |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 8015B | |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 8015B | |
| LCS 680-247361/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247361/5 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247361/3 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 247420

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8015B | |
| LCS 680-247420/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCS 680-247420/5 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247420/6 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| LCSD 680-247420/7 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247420/23 | Method Blank | Total/NA | Solid | 8015B | |
| MB 680-247420/3 | Method Blank | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 44616

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 3510C | |
| LCS 180-44616/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCS 180-44616/4-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 180-44616/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| LCSD 180-44616/5-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 180-44616/1-A | Method Blank | Total/NA | Water | 3510C | |

### Prep Batch: 44632

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 8151A | |
| LCS 180-44632/2-A | Lab Control Sample | Total/NA | Water | 8151A | |
| LCSD 180-44632/3-A | Lab Control Sample Dup | Total/NA | Water | 8151A | |
| MB 180-44632/1-A | Method Blank | Total/NA | Water | 8151A | |

### Prep Batch: 45454

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 3541 | |
| LCS 180-45454/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCS 180-45454/2-C | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-45454/1-A | Method Blank | Total/NA | Solid | 3541 | |
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 3541 | |

### Prep Batch: 45494

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8151A | |
| LCS 180-45494/2-A | Lab Control Sample | Total/NA | Solid | 8151A | |
| MB 180-45494/1-A | Method Blank | Total/NA | Solid | 8151A | |

### Prep Batch: 45544

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 3541 | |
| 180-13260-2 MS | 07W@1-3' | Total/NA | Solid | 3541 | |
| 180-13260-2 MSD | 07W@1-3' | Total/NA | Solid | 3541 | |
| LCS 180-45544/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-45544/1-A | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 45553

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 8082 | 44616 |
| LCS 180-44616/4-A | Lab Control Sample | Total/NA | Water | 8082 | 44616 |
| LCSD 180-44616/5-A | Lab Control Sample Dup | Total/NA | Water | 8082 | 44616 |
| MB 180-44616/1-A | Method Blank | Total/NA | Water | 8082 | 44616 |

### Analysis Batch: 45885

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 8081A | |
| LCS 180-44616/2-A | Lab Control Sample | Total/NA | Water | 8081A | 44616 |
| LCSD 180-44616/3-A | Lab Control Sample Dup | Total/NA | Water | 8081A | 44616 |
| MB 180-44616/1-A | Method Blank | Total/NA | Water | 8081A | 44616 |

## GC Semi VOA (Continued)

### Analysis Batch: 46393

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 8151A | 44632 |
| LCS 180-44632/2-A | Lab Control Sample | Total/NA | Water | 8151A | 44632 |
| LCSD 180-44632/3-A | Lab Control Sample Dup | Total/NA | Water | 8151A | 44632 |
| MB 180-44632/1-A | Method Blank | Total/NA | Water | 8151A | 44632 |

### Analysis Batch: 46394

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 8151A | 44632 |
| LCS 180-44632/2-A | Lab Control Sample | Total/NA | Water | 8151A | 44632 |
| LCSD 180-44632/3-A | Lab Control Sample Dup | Total/NA | Water | 8151A | 44632 |
| MB 180-44632/1-A | Method Blank | Total/NA | Water | 8151A | 44632 |

### Analysis Batch: 46582

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8082 | 45454 |
| LCS 180-45454/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 45454 |
| LCS 180-45454/2-C | Lab Control Sample | Total/NA | Solid | 8082 | 45454 |
| MB 180-45454/1-A | Method Blank | Total/NA | Solid | 8082 | 45454 |
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 8082 | 45454 |

### Analysis Batch: 46726

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8081A | 45544 |
| 180-13260-2 MS | 07W@1-3' | Total/NA | Solid | 8081A | 45544 |
| 180-13260-2 MSD | 07W@1-3' | Total/NA | Solid | 8081A | 45544 |
| LCS 180-45544/2-A | Lab Control Sample | Total/NA | Solid | 8081A | 45544 |
| MB 180-45544/1-A | Method Blank | Total/NA | Solid | 8081A | 45544 |

### Analysis Batch: 46947

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8151A | 45494 |
| LCS 180-45494/2-A | Lab Control Sample | Total/NA | Solid | 8151A | 45494 |
| MB 180-45494/1-A | Method Blank | Total/NA | Solid | 8151A | 45494 |

### Analysis Batch: 46969

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8151A | 45494 |
| LCS 180-45494/2-A | Lab Control Sample | Total/NA | Solid | 8151A | 45494 |
| MB 180-45494/1-A | Method Blank | Total/NA | Solid | 8151A | 45494 |

### Analysis Batch: 46972

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 8082 | 45454 |

### Prep Batch: 246466

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 3520C | |
| 180-13260-7 | 68W | Total/NA | Water | 3520C | |
| LCS 680-246466/9-A | Lab Control Sample | Total/NA | Water | 3520C | |
| MB 680-246466/8-A | Method Blank | Total/NA | Water | 3520C | |

## GC Semi VOA (Continued)

### Prep Batch: 246523

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 3546 | |
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 3546 | |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 3546 | |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 3546 | |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 3546 | |
| LCS 680-246523/21-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-246523/20-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 247429

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 8015B | 246523 |
| 180-13260-3 | 07W | Total/NA | Water | 8015B | 246466 |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 8015B | 246523 |
| 180-13260-7 | 68W | Total/NA | Water | 8015B | 246466 |
| LCS 680-246466/9-A | Lab Control Sample | Total/NA | Water | 8015B | 246466 |
| MB 680-246466/8-A | Method Blank | Total/NA | Water | 8015B | 246466 |

### Analysis Batch: 247459

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-246523/21-A | Lab Control Sample | Total/NA | Solid | 8015B | 246523 |
| MB 680-246523/20-A | Method Blank | Total/NA | Solid | 8015B | 246523 |

### Prep Batch: 247576

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 - RE | 07W@1-3' | Total/NA | Solid | 3546 | |
| 180-13260-4 - RE | 03@2-4' | Total/NA | Solid | 3546 | |
| 180-13260-5 - RE | 05@2-4' | Total/NA | Solid | 3546 | |
| LCS 680-247576/11-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-247576/10-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 247699

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-247576/11-A | Lab Control Sample | Total/NA | Solid | 8015B | 247576 |
| MB 680-247576/10-A | Method Blank | Total/NA | Solid | 8015B | 247576 |

### Analysis Batch: 247753

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 - RE | 07W@1-3' | Total/NA | Solid | 8015B | 247576 |
| 180-13260-4 - RE | 03@2-4' | Total/NA | Solid | 8015B | 247576 |
| 180-13260-5 - RE | 05@2-4' | Total/NA | Solid | 8015B | 247576 |

## Metals

### Prep Batch: 44835

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 3010A | |
| LCS 180-44835/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| MB 180-44835/1-A | Method Blank | Total/NA | Water | 3010A | |

## Metals (Continued)

### Prep Batch: 44845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 3050B | |
| LCS 180-44845/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 180-44845/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 45042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 6010B | 44845 |
| LCS 180-44845/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 44845 |
| MB 180-44845/1-A | Method Blank | Total/NA | Solid | 6010B | 44845 |

### Analysis Batch: 46183

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 6010B | 44835 |
| LCS 180-44835/2-A | Lab Control Sample | Total/NA | Water | 6010B | 44835 |
| MB 180-44835/1-A | Method Blank | Total/NA | Water | 6010B | 44835 |

### Prep Batch: 46382

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 7470A | |
| LCS 180-46382/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-46382/1-A | Method Blank | Total/NA | Water | 7470A | |

### Analysis Batch: 46478

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 7470A | 46382 |
| LCS 180-46382/2-A | Lab Control Sample | Total/NA | Water | 7470A | 46382 |
| MB 180-46382/1-A | Method Blank | Total/NA | Water | 7470A | 46382 |

### Prep Batch: 46481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 7471A | |
| LCS 180-46481/2-A | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 180-46481/1-A | Method Blank | Total/NA | Solid | 7471A | |

### Analysis Batch: 46514

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 7471A | 46481 |
| LCS 180-46481/2-A | Lab Control Sample | Total/NA | Solid | 7471A | 46481 |
| MB 180-46481/1-A | Method Blank | Total/NA | Solid | 7471A | 46481 |

## General Chemistry

### Prep Batch: 16979

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 9023 | |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 9023 | |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 9023 | |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 9023 | |
| LCS 490-16979/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| LCSD 490-16979/2-A | Lab Control Sample Dup | Total/NA | Solid | 9023 | |
| MB 490-16979/3-A | Method Blank | Total/NA | Solid | 9023 | |

## General Chemistry (Continued)

### Analysis Batch: 16986

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 9023 | 16979 |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 9023 | 16979 |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 9023 | 16979 |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 9023 | 16979 |
| LCS 490-16979/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 16979 |
| LCSD 490-16979/2-A | Lab Control Sample Dup | Total/NA | Solid | 9023 | 16979 |
| MB 490-16979/3-A | Method Blank | Total/NA | Solid | 9023 | 16979 |

### Analysis Batch: 44601

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | Moisture | |
| 180-13260-1 DU | 13@2-4' | Total/NA | Solid | Moisture | |
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | Moisture | |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | Moisture | |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | Moisture | |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | Moisture | |

### Prep Batch: 46415

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 1664A | |
| 180-13260-7 | 68W | Total/NA | Water | 1664A | |
| LCS 180-46415/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-46415/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-46415/1-A | Method Blank | Total/NA | Water | 1664A | |

### Analysis Batch: 46462

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-3 | 07W | Total/NA | Water | 1664A | 46415 |
| 180-13260-7 | 68W | Total/NA | Water | 1664A | 46415 |
| LCS 180-46415/2-A | Lab Control Sample | Total/NA | Water | 1664A | 46415 |
| LCSD 180-46415/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 46415 |
| MB 180-46415/1-A | Method Blank | Total/NA | Water | 1664A | 46415 |

### Prep Batch: 46666

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 9071B | |
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 9071B | |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 9071B | |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 9071B | |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 9071B | |
| LCS 180-46666/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-46666/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-46666/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Analysis Batch: 46770

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-1 | 13@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13260-2 | 07W@1-3' | Total/NA | Solid | 9071B | 46666 |
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13260-6 | 68W@2-4' | Total/NA | Solid | 9071B | 46666 |
| LCS 180-46666/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 46666 |

## General Chemistry (Continued)

### Analysis Batch: 46770 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSD 180-46666/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 46666 |
| MB 180-46666/1-A | Method Blank | Total/NA | Solid | 9071B | 46666 |

### Prep Batch: 247588

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-7 | 68W | Total/NA | Water | Carbon Trap | |
| LCS 680-247588/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-247588/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 247590

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-7 | 68W | Total/NA | Water | 9020B | 247588 |
| LCS 680-247588/2-A | Lab Control Sample | Total/NA | Water | 9020B | 247588 |
| MB 680-247588/1-A | Method Blank | Total/NA | Water | 9020B | 247588 |

180-13260

1.3 #12

# Chain of Custody Record

PGH

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | 1 of 1 COCs |
| City/State/Zip: Mech. VA 23116 | Email: dfraser@eee-consulting.co | | | |
| Phone: 804-442-3330 | | | | |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Analyses

| Sample Identification | Sample Date | Sample Time | Air | Aqueous | Sediment | Solid | Other: | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | PCBs | METALS | FULL TCLP | PESTS & HERBS | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13@ 2-4' | 8/7/12 | 11:45 | | | | X | | | | | | | | | X | X | | | X | | | | | |
| 07W@ 1-3' | | 2:30 | | | | X | | | | | | | | | X | X | X | X | | X | X | | X | |
| 07W | | 3:00 | | X | | | | X | X | X | | | | | X | X | X | X | | X | X | | X | |
| 03@ 2-4' | | 3:45 | | | | X | | | | | | | | | X | X | | | X | | | | | |
| 05@ 2-4' | | 4:00 | | | | X | | | | | | | | | X | X | | | X | | | | | |
| 68W@ 2-4' | | 12:45 | | | | X | | | | | | | | | X | X | | | X | | | | | |
| 68W | 8/7/12 | 1:15 | | X | | | | X | [illegible] | X | | | | | X | X | | | X | | | | | |

only samples received

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| [signature] | EEE | 8/8/12 10:30 | [signature] | TA | 8/8/12 1030 |
| [signature] | TA | 8/8/12 1700 | [signature] | TA Diff | 8-9-12 960 |
| | | | | | |

©2009, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)



9/6/2012

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13260-1

**Login Number: 13260**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13260-1

**Login Number: 13260**
**List Number: 1**
**Creator: Conner, Keaton**

**List Source: TestAmerica Savannah**
**List Creation: 08/11/12 01:32 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | N/A | |
| 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | N/A | |
| Samples do not require splitting or compositing. | N/A | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13260-1

**Login Number: 13260**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13260-3
Client Project/Site: Midtown Tunnel (MTT-MLK)

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

Veronica Bortot

*Authorized for release by:*
*10/8/2012 4:59:48 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 4
Certification Summary . . . . . 5
Sample Summary . . . . . 6
Method Summary . . . . . 7
Client Sample Results . . . . . 8
QC Sample Results . . . . . 9
QC Association . . . . . 10
Chain of Custody . . . . . 11
Receipt Checklists . . . . . 12

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-3

## Job ID: 180-13260-3

### Laboratory: TestAmerica Pittsburgh

**Narrative**

**Job Narrative**
**180-13260-3**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/9/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

**GC Semi VOA**
No analytical or quality issues were noted.

**Organic Prep**
Method(s) 3541: The following sample(s) was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample : 180-13260-4, 180-13260-5.

No other analytical or quality issues were noted.

# Definitions/Glossary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-3

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| H | Sample was prepped or analyzed beyond the specified holding time |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-3

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-3

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13260-4 | 03@2-4' | Solid | 08/07/12 03:45 | 08/09/12 09:00 |
| 180-13260-5 | 05@2-4' | Solid | 08/07/12 04:00 | 08/09/12 09:00 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-3

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-3

**Client Sample ID: 03@2-4'**
**Date Collected: 08/07/12 03:45**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-4**
**Matrix: Solid**
**Percent Solids: 79.2**

**Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | H | 21 | 3.1 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 14:34 | 1 |
| PCB-1221 | ND | H | 21 | 4.0 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 14:34 | 1 |
| PCB-1232 | ND | H | 21 | 3.6 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 14:34 | 1 |
| PCB-1242 | ND | H | 21 | 3.4 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 14:34 | 1 |
| PCB-1248 | ND | H | 21 | 2.0 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 14:34 | 1 |
| PCB-1254 | ND | H | 21 | 3.0 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 14:34 | 1 |
| PCB-1260 | ND | H | 21 | 3.0 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 14:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *81* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 14:34* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 14:34* | *1* |

**Client Sample ID: 05@2-4'**
**Date Collected: 08/07/12 04:00**
**Date Received: 08/09/12 09:00**

**Lab Sample ID: 180-13260-5**
**Matrix: Solid**
**Percent Solids: 83.2**

**Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | H | 20 | 3.0 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:02 | 1 |
| PCB-1221 | ND | H | 20 | 3.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:02 | 1 |
| PCB-1232 | ND | H | 20 | 3.4 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:02 | 1 |
| PCB-1242 | ND | H | 20 | 3.2 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:02 | 1 |
| PCB-1248 | ND | H | 20 | 1.9 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:02 | 1 |
| PCB-1254 | ND | H | 20 | 2.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:02 | 1 |
| PCB-1260 | ND | H | 20 | 2.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *90* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 15:02* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 15:02* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-50560/1-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *98* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 17:23* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *98* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 17:23* | *1* |

**Lab Sample ID: LCS 180-50560/2-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1200 | | ug/Kg | | 90 | 55 - 130 | | |
| PCB-1260 | | | 1330 | 1280 | | ug/Kg | | 96 | 54 - 130 | | |

| *Surrogate* | | | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | | | *90* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | | | *109* | | *35 - 140* |

**Lab Sample ID: LCSD 180-50560/3-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1200 | | ug/Kg | | 90 | 55 - 130 | 0 | 35 |
| PCB-1260 | | | 1330 | 1220 | | ug/Kg | | 91 | 54 - 130 | 5 | 29 |

| *Surrogate* | | | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | | | *93* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | | | *101* | | *35 - 140* |

# QC Association Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13260-3

## GC Semi VOA

### Prep Batch: 50560

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 3541 | |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 3541 | |
| LCS 180-50560/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 180-50560/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |
| MB 180-50560/1-A | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 50942

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13260-4 | 03@2-4' | Total/NA | Solid | 8082 | 50560 |
| 180-13260-5 | 05@2-4' | Total/NA | Solid | 8082 | 50560 |
| LCS 180-50560/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 50560 |
| LCSD 180-50560/3-A | Lab Control Sample Dup | Total/NA | Solid | 8082 | 50560 |
| MB 180-50560/1-A | Method Blank | Total/NA | Solid | 8082 | 50560 |

180-13260

1.3 #12

# Chain of Custody Record

PGH

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | 1 of 1 COCs |
| City/State/Zip: Mech. VA 23116 | Email: dfraser@eee-consulting.co | | | |
| Phone: 804-442-3330 | | | | |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Analyses

| Sample Identification | Sample Date | Sample Time | Air | Aqueous | Sediment | Solid | Other: | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | PCBs | METALS | FULL TCLP | PESTS & HERBS | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13@ 2-4' | 8/7/12 | 11:45 | | | | X | | | | | | | | | X | X | | | X | | | | | |
| 07W@ 1-3' | | 2:30 | | | | X | | | | | | | | | X | X | X | X | | X | X | | X | |
| 07W | | 3:00 | | X | | | | X | X | X | | | | | X | X | X | X | | X | X | | X | |
| 03@ 2-4' | | 3:45 | | | | X | | | | | | | | | X | X | | | X | | | | | |
| 05@ 2-4' | | 4:00 | | | | X | | | | | | | | | X | X | | | X | | | | | |
| 68W@ 2-4' | | 12:45 | | | | X | | | | | | | | | X | X | | | X | | | | | |
| 68W | 8/7/12 | 1:15 | | X | | | | X | [illegible] | X | | | | | X | X | | | X | | | | | |

only samples received

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| [signature] | EEE | 8/8/12 10:30 | [signature] | TA | 8/8/12 1030 |
| [signature] | TA | 8/8/12 1700 | [signature] | TA Diff | 8-9-12 960 |
| | | | | | |

©2009, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13260-3

**Login Number: 13260**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13331-1
Client Project/Site: Midtown Tunnel (MTT-MLK)
Revision: 1

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

*Authorized for release by:*
*9/27/2012 2:23:46 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 5
Certification Summary . . . . . 6
Sample Summary . . . . . 9
Method Summary . . . . . 10
Client Sample Results . . . . . 11
QC Sample Results . . . . . 29
QC Association . . . . . 51
Chain of Custody . . . . . 61
Receipt Checklists . . . . . 63

## Job ID: 180-13331-1

### Laboratory: TestAmerica Pittsburgh

**Narrative**

**Job Narrative**
**180-13331-1**

**Receipt**
The samples were received on 8/10/2012 @ 10:15 AM; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.9º C, 2.8º C, 3.2º C and 4.7º C.

**GC/MS VOA**
Method 8260B: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 45187 exceeded control limits for the following analytes:1,2-Dibromo-3-Chloropropane.

Methylene Chloride was detected in method blank MB 180-45466/3 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

**GC/MS Semi VOA**
No analytical or quality issues were noted.

**GC VOA GRO**
Method 8015B: The laboratory control sample (LCS) for batch 247126 exceeded control limits for the following analytes: GRO. The associated samples were re-analyzed outside holding time. Both sets of data have been reported.

**GC Semi VOA DRO**
Method 8015B: The following samples needed to be re-digested/re-extracted due to surrogage failure:180-13331-8, 180-13331-13.

Method 8015B: Surrogate recovery for the following sample was outside of acceptance limits: 180-13331-2. There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Method 8015B: Surrogate recovery for the following samples were outside control limits: 180-13331-8, 180-13331-13. Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. Both sets of data were reported.

**Metals**
No analytical or quality issues were noted.

**General Chemistry**
Method 1664A: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: 180-13331-2, 180-13331-8, 180-13331-15. The reporting limits (RLs) have been adjusted proportionately.

**Narrative**

**Job Narrative**
**180-13331-2**

**Comments**
No additional comments.

**Receipt**

## Job ID: 180-13331-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

The samples were received on 8/10/2012 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.9º C, 2.8º C, 3.2º C and 4.7º C.

**General Chemistry**
No analytical or quality issues were noted.

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| 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

| Qualifier | Qualifier Description |
|---|---|
| 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

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate is outside control limits |
| H | Sample was prepped or analyzed beyond the specified holding time |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| H | Sample was prepped or analyzed beyond the specified holding time |
| B | Compound was found in the blank and sample. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-12 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Solid | 08/08/12 12:15 | 08/10/12 10:15 |
| 180-13331-2 | 06W | Water | 08/08/12 12:30 | 08/10/12 10:15 |
| 180-13331-3 | 08W | Water | 08/08/12 02:45 | 08/10/12 10:15 |
| 180-13331-4 | 08W@3-5' | Solid | 08/08/12 02:30 | 08/10/12 10:15 |
| 180-13331-5 | 09W@2-4' | Solid | 08/08/12 10:05 | 08/10/12 10:15 |
| 180-13331-6 | 09W | Water | 08/08/12 11:00 | 08/10/12 10:15 |
| 180-13331-7 | 69W@2-4' | Solid | 08/08/12 04:20 | 08/10/12 10:15 |
| 180-13331-8 | 69W | Water | 08/08/12 04:35 | 08/10/12 10:15 |
| 180-13331-9 | 70W@2-4' | Solid | 08/08/12 03:20 | 08/10/12 10:15 |
| 180-13331-10 | 70W | Water | 08/08/12 03:50 | 08/10/12 10:15 |
| 180-13331-11 | 06WD | Water | 08/08/12 12:30 | 08/10/12 10:15 |
| 180-13331-12 | 10W@2-4' | Solid | 08/08/12 08:30 | 08/10/12 10:15 |
| 180-13331-13 | 10W | Water | 08/08/12 09:15 | 08/10/12 10:15 |
| 180-13331-14 | 10WD@2-4' | Solid | 08/08/12 08:30 | 08/10/12 10:15 |
| 180-13331-15 | 10WD | Water | 08/08/12 09:15 | 08/10/12 10:15 |
| 180-13331-16 | TRIP BLANK | Water | 08/08/12 00:00 | 08/10/12 10:15 |
| 180-13331-17 | 01@2-4' | Solid | 08/09/12 08:30 | 08/10/12 10:15 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8260B | Volatile Organic Compounds by GC/MS | SW846 | TAL PIT |
| 8270C | Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | SW846 | TAL PIT |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |
| 6010B | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |
| 7471A | Mercury (CVAA) | SW846 | TAL PIT |
| 1020B | Ignitability, Small Scale Closed-Cup Method | SW846 | TAL PIT |
| 1664A | HEM and SGT-HEM | 1664A | TAL PIT |
| 9012A | Cyanide, Total and/or Amenable | SW846 | TAL PIT |
| 9020B | Organic Halides, Total (TOX) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9034 | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846 | TAL PIT |
| 9045C | pH | SW846 | TAL PIT |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

**Client Sample ID: 06W@5-7'**
**Date Collected: 08/08/12 12:15**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-1**
**Matrix: Solid**
**Percent Solids: 85.4**

## Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.9 | 0.79 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 14:26 | 1 |
| Toluene | ND | | 5.9 | 0.85 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 14:26 | 1 |
| Ethylbenzene | ND | | 5.9 | 0.75 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 14:26 | 1 |
| Xylenes, Total | ND | | 18 | 2.6 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 14:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *87* | | *52 - 124* | *08/16/12 03:57* | *08/16/12 14:26* | *1* |
| *Toluene-d8 (Surr)* | *104* | | *72 - 127* | *08/16/12 03:57* | *08/16/12 14:26* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *63 - 120* | *08/16/12 03:57* | *08/16/12 14:26* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *68 - 121* | *08/16/12 03:57* | *08/16/12 14:26* | *1* |

## Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 16:12 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 08/17/12 16:12 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 16:12 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 08/17/12 16:12 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 16:12 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 08/17/12 16:12 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 08/17/12 16:12 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 08/17/12 16:12 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 08/17/12 16:12 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 08/17/12 16:12 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* | | *08/17/12 16:12* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *69* | | *62 - 123* | | *08/17/12 16:12* | *40* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *75 - 120* | | *08/17/12 16:12* | *40* |
| *Dibromofluoromethane (Surr)* | *86* | | *80 - 120* | | *08/17/12 16:12* | *40* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/14/12 14:00 | 08/15/12 20:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *76* | | *19 - 138* | *08/14/12 14:00* | *08/15/12 20:24* | *1* |
| *2-Fluorobiphenyl* | *88* | | *35 - 115* | *08/14/12 14:00* | *08/15/12 20:24* | *1* |
| *2-Fluorophenol* | *102* | | *20 - 110* | *08/14/12 14:00* | *08/15/12 20:24* | *1* |
| *Nitrobenzene-d5* | *105* | | *39 - 115* | *08/14/12 14:00* | *08/15/12 20:24* | *1* |
| *Phenol-d5* | *106* | | *30 - 118* | *08/14/12 14:00* | *08/15/12 20:24* | *1* |
| *Terphenyl-d14* | *100* | | *30 - 143* | *08/14/12 14:00* | *08/15/12 20:24* | *1* |

**Client Sample ID: 06W@5-7'**
**Date Collected: 08/08/12 12:15**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-1**
**Matrix: Solid**
**Percent Solids: 85.4**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.32 | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/21/12 15:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *127* | | *70 - 131* | | *08/21/12 15:33* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 23 | | 3.9 | 2.5 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 15:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *65* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 15:28* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 19 | 2.9 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 14:01 | 1 |
| PCB-1221 | ND | | 19 | 3.7 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 14:01 | 1 |
| PCB-1232 | ND | | 19 | 3.3 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 14:01 | 1 |
| PCB-1242 | ND | | 19 | 3.2 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 14:01 | 1 |
| PCB-1248 | ND | | 19 | 1.8 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 14:01 | 1 |
| PCB-1254 | ND | | 19 | 2.8 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 14:01 | 1 |
| PCB-1260 | ND | | 19 | 2.8 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 14:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *70* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 14:01* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *75* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 14:01* | *1* |

## Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 5.6 | | 0.94 | 0.21 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:54 | 1 |
| Barium | 16 | J | 19 | 0.047 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:54 | 1 |
| Cadmium | ND | | 0.47 | 0.022 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:54 | 1 |
| Chromium | 5.5 | | 0.47 | 0.080 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:54 | 1 |
| Lead | 11 | | 0.28 | 0.14 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:54 | 1 |
| Selenium | ND | | 0.47 | 0.19 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:54 | 1 |
| Silver | ND | | 0.47 | 0.054 | mg/Kg | ☼ | 08/13/12 17:44 | 08/14/12 16:54 | 1 |

## Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0076 | J | 0.050 | 0.0027 | mg/L | | 08/15/12 09:47 | 08/16/12 14:36 | 1 |
| Barium | 0.20 | B | 0.20 | 0.00062 | mg/L | | 08/15/12 09:47 | 08/16/12 14:36 | 1 |
| Cadmium | 0.00073 | J | 0.050 | 0.00013 | mg/L | | 08/15/12 09:47 | 08/16/12 14:36 | 1 |
| Chromium | 0.0028 | J | 0.050 | 0.00057 | mg/L | | 08/15/12 09:47 | 08/16/12 14:36 | 1 |
| Lead | 4.1 | | 0.050 | 0.0013 | mg/L | | 08/15/12 09:47 | 08/16/12 14:36 | 1 |
| Selenium | 0.0070 | J B | 0.050 | 0.0030 | mg/L | | 08/15/12 09:47 | 08/16/12 14:36 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/15/12 09:47 | 08/16/12 14:36 | 1 |

## Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/16/12 10:01 | 08/16/12 15:26 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

## Client Sample ID: 06W@5-7'

**Lab Sample ID: 180-13331-1**
**Date Collected: 08/08/12 12:15**
**Matrix: Solid**
**Date Received: 08/10/12 10:15**
**Percent Solids: 85.4**

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.036 | 0.012 | mg/Kg | ☼ | 08/29/12 06:52 | 08/29/12 13:27 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.57 | 0.11 | mg/Kg | ☼ | 08/21/12 10:10 | 08/21/12 12:51 | 1 |
| Halogens, Extractable Organic | ND | | 12 | 8.2 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **Sulfide** | **24** | **J** | 35 | 7.1 | mg/Kg | ☼ | 08/14/12 10:00 | 08/14/12 15:00 | 1 |
| **HEM** | **590** | **B** | 200 | 27 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ignitability** | **>140** | | | | Degrees F | | | 08/22/12 10:20 | 1 |
| **Flashpoint** | **>140** | | | | Degrees F | | | 08/22/12 10:20 | 1 |
| **pH** | **6.25** | **H** | 0.100 | 0.100 | SU | | | 08/16/12 12:51 | 1 |
| **Percent Moisture** | **15** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |
| **Percent Solids** | **85** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |

## Client Sample ID: 06W

**Lab Sample ID: 180-13331-2**
**Date Collected: 08/08/12 12:30**
**Matrix: Water**
**Date Received: 08/10/12 10:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/18/12 01:06 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/18/12 01:06 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/18/12 01:06 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:06 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/18/12 01:06 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:06 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:06 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:06 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 01:06 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/18/12 01:06 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 01:06 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/18/12 01:06 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/18/12 01:06 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/18/12 01:06 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/18/12 01:06 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/18/12 01:06 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/18/12 01:06 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:06 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/18/12 01:06 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/18/12 01:06 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/18/12 01:06 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/18/12 01:06 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

**Client Sample ID: 06W**
**Date Collected: 08/08/12 12:30**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-2**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/18/12 01:06 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/18/12 01:06 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/18/12 01:06 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/18/12 01:06 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/18/12 01:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/18/12 01:06 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 01:06 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/18/12 01:06 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/18/12 01:06 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 01:06 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 01:06 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 08/18/12 01:06 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/18/12 01:06 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/18/12 01:06 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/18/12 01:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *62 - 123* | | *08/18/12 01:06* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* | | *08/18/12 01:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* | | *08/18/12 01:06* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 120* | | *08/18/12 01:06* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 15:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 130* | | *08/20/12 15:28* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.65** | | 0.086 | 0.043 | mg/L | | 08/15/12 15:19 | 08/22/12 12:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *58* | *X* | *62 - 130* | *08/15/12 15:19* | *08/22/12 12:08* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.40 | 0.10 | ug/L | | 08/13/12 13:15 | 08/27/12 21:03 | 1 |
| PCB-1221 | ND | | 0.40 | 0.10 | ug/L | | 08/13/12 13:15 | 08/27/12 21:03 | 1 |
| PCB-1232 | ND | | 0.40 | 0.12 | ug/L | | 08/13/12 13:15 | 08/27/12 21:03 | 1 |
| PCB-1242 | ND | | 0.40 | 0.074 | ug/L | | 08/13/12 13:15 | 08/27/12 21:03 | 1 |
| PCB-1248 | ND | | 0.40 | 0.091 | ug/L | | 08/13/12 13:15 | 08/27/12 21:03 | 1 |
| PCB-1254 | ND | | 0.40 | 0.092 | ug/L | | 08/13/12 13:15 | 08/27/12 21:03 | 1 |
| PCB-1260 | ND | | 0.40 | 0.054 | ug/L | | 08/13/12 13:15 | 08/27/12 21:03 | 1 |

## Client Sample ID: 06W

**Lab Sample ID: 180-13331-2**

**Date Collected: 08/08/12 12:30**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *75* | | *35 - 140* | *08/13/12 13:15* | *08/27/12 21:03* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *84* | | *35 - 140* | *08/13/12 13:15* | *08/27/12 21:03* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **140** | | 10 | 2.7 | ug/L | | 08/13/12 16:34 | 08/24/12 00:31 | 1 |
| **Barium** | **970** | | 200 | 0.62 | ug/L | | 08/13/12 16:34 | 08/24/12 00:31 | 1 |
| **Cadmium** | **4.5** | **J** | 5.0 | 0.13 | ug/L | | 08/13/12 16:34 | 08/24/12 00:31 | 1 |
| **Chromium** | **270** | | 5.0 | 0.57 | ug/L | | 08/13/12 16:34 | 08/24/12 00:31 | 1 |
| **Lead** | **440** | | 3.0 | 1.3 | ug/L | | 08/13/12 16:34 | 08/24/12 00:31 | 1 |
| **Selenium** | **13** | | 5.0 | 3.0 | ug/L | | 08/13/12 16:34 | 08/24/12 00:31 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/13/12 16:34 | 08/24/12 00:31 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **1.0** | | 0.20 | 0.038 | ug/L | | 08/30/12 07:14 | 08/30/12 13:01 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **4.6** | **J** | 10 | 3.1 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |

## Client Sample ID: 08W

**Lab Sample ID: 180-13331-3**

**Date Collected: 08/08/12 02:45**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/15/12 20:04 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/15/12 20:04 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/15/12 20:04 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/15/12 20:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *127* | | *64 - 135* | | *08/15/12 20:04* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *71 - 118* | | *08/15/12 20:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 118* | | *08/15/12 20:04* | *1* |
| *Dibromofluoromethane (Surr)* | *113* | | *70 - 128* | | *08/15/12 20:04* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 15:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 130* | | *08/20/12 15:53* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.39** | | 0.098 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 12:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *77* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 12:22* | *1* |

## Client Sample ID: 08W

**Lab Sample ID: 180-13331-3**

**Date Collected: 08/08/12 02:45**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **1.5** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| TPH | ND | | 5.2 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **Halogens, Total Organic** | **0.060** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| **TOX Result 1** | **0.064** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| **TOX Result 2** | **0.055** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |

## Client Sample ID: 08W@3-5'

**Lab Sample ID: 180-13331-4**

**Date Collected: 08/08/12 02:30**

**Matrix: Solid**

**Date Received: 08/10/12 10:15**

**Percent Solids: 89.0**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.6 | 0.76 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 14:50 | 1 |
| Toluene | ND | | 5.6 | 0.82 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 14:50 | 1 |
| Ethylbenzene | ND | | 5.6 | 0.72 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 14:50 | 1 |
| Xylenes, Total | ND | | 17 | 2.5 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 14:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *74* | | *52 - 124* | *08/16/12 03:57* | *08/16/12 14:50* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *72 - 127* | *08/16/12 03:57* | *08/16/12 14:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *63 - 120* | *08/16/12 03:57* | *08/16/12 14:50* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *68 - 121* | *08/16/12 03:57* | *08/16/12 14:50* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.28 | 0.021 | mg/Kg | ☼ | | 08/21/12 22:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *110* | | *70 - 131* | | *08/21/12 22:20* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **21** | | 3.7 | 2.3 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 15:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *63* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 15:42* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.9 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **340** | **B** | 190 | 26 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **11** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |
| **Percent Solids** | **89** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |

## Client Sample ID: 09W@2-4'

**Lab Sample ID: 180-13331-5**

**Date Collected: 08/08/12 10:05**

**Matrix: Solid**

**Date Received: 08/10/12 10:15**

**Percent Solids: 87.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.7 | 0.77 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 15:14 | 1 |

## Client Sample ID: 09W@2-4'

**Lab Sample ID: 180-13331-5**
**Date Collected: 08/08/12 10:05**
**Matrix: Solid**
**Date Received: 08/10/12 10:15**
**Percent Solids: 87.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 5.7 | 0.84 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 15:14 | 1 |
| Ethylbenzene | ND | | 5.7 | 0.74 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 15:14 | 1 |
| Xylenes, Total | ND | | 17 | 2.6 | ug/Kg | ☼ | 08/16/12 03:57 | 08/16/12 15:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *52 - 124* | *08/16/12 03:57* | *08/16/12 15:14* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *72 - 127* | *08/16/12 03:57* | *08/16/12 15:14* | *1* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *63 - 120* | *08/16/12 03:57* | *08/16/12 15:14* | *1* |
| *Dibromofluoromethane (Surr)* | *86* | | *68 - 121* | *08/16/12 03:57* | *08/16/12 15:14* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/21/12 22:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *89* | | *70 - 131* | | *08/21/12 22:40* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2.8** | **J** | 3.8 | 2.4 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 16:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *84* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 16:10* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 8.0 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **100** | **J B** | 190 | 26 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **13** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |
| **Percent Solids** | **87** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |

## Client Sample ID: 09W

**Lab Sample ID: 180-13331-6**
**Date Collected: 08/08/12 11:00**
**Matrix: Water**
**Date Received: 08/10/12 10:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/15/12 20:28 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/15/12 20:28 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/15/12 20:28 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/15/12 20:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *132* | | *64 - 135* | | *08/15/12 20:28* | *1* |
| *Toluene-d8 (Surr)* | *114* | | *71 - 118* | | *08/15/12 20:28* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 118* | | *08/15/12 20:28* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *70 - 128* | | *08/15/12 20:28* | *1* |

## Client Sample ID: 09W

**Lab Sample ID: 180-13331-6**

**Date Collected: 08/08/12 11:00**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 16:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 130* | | *08/20/12 16:19* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.21** | | 0.097 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 12:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *79* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 12:36* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **1.6** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **TPH** | **1.5** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **Halogens, Total Organic** | **0.078** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| **TOX Result 1** | **0.078** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| **TOX Result 2** | **0.078** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |

## Client Sample ID: 69W@2-4'

**Lab Sample ID: 180-13331-7**

**Date Collected: 08/08/12 04:20**

**Matrix: Solid**

**Date Received: 08/10/12 10:15**

**Percent Solids: 85.8**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.8 | 0.79 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 15:11 | 1 |
| Toluene | ND | | 5.8 | 0.85 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 15:11 | 1 |
| Ethylbenzene | ND | | 5.8 | 0.75 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 15:11 | 1 |
| Xylenes, Total | ND | | 17 | 2.6 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 15:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *77* | | *52 - 124* | *08/19/12 10:14* | *08/19/12 15:11* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *72 - 127* | *08/19/12 10:14* | *08/19/12 15:11* | *1* |
| *4-Bromofluorobenzene (Surr)* | *84* | | *63 - 120* | *08/19/12 10:14* | *08/19/12 15:11* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *68 - 121* | *08/19/12 10:14* | *08/19/12 15:11* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/21/12 22:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 131* | | *08/21/12 22:59* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2.5** | **J** | 3.8 | 2.4 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 16:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *70* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 16:24* | *1* |

## Client Sample ID: 69W@2-4'

**Lab Sample ID: 180-13331-7**

**Date Collected: 08/08/12 04:20**
**Matrix: Solid**
**Date Received: 08/10/12 10:15**
**Percent Solids: 85.8**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.2 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **73** | **J B** | 190 | 27 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **14** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |
| **Percent Solids** | **86** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |

## Client Sample ID: 69W

**Lab Sample ID: 180-13331-8**

**Date Collected: 08/08/12 04:35**
**Matrix: Water**
**Date Received: 08/10/12 10:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/15/12 15:58 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/15/12 15:58 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/15/12 15:58 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/15/12 15:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *64 - 135* | | *08/15/12 15:58* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *71 - 118* | | *08/15/12 15:58* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 118* | | *08/15/12 15:58* | *1* |
| *Dibromofluoromethane (Surr)* | *115* | | *70 - 128* | | *08/15/12 15:58* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 16:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/20/12 16:44* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.20** | | 0.098 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 12:50 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *53* | *X* | *62 - 130* | *08/15/12 15:19* | *08/22/12 12:50* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.25** | **H** | 0.091 | 0.046 | mg/L | | 08/23/12 16:24 | 08/27/12 13:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *72* | | *62 - 130* | *08/23/12 16:24* | *08/27/12 13:08* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **9.2** | **J** | 20 | 6.0 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **TPH** | **6.0** | **J** | 20 | 5.9 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **Halogens, Total Organic** | **0.094** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| **TOX Result 1** | **0.093** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| **TOX Result 2** | **0.094** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |

## Client Sample ID: 70W@2-4'

**Lab Sample ID: 180-13331-9**

**Date Collected: 08/08/12 03:20**
**Matrix: Solid**
**Date Received: 08/10/12 10:15**
**Percent Solids: 80.3**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.2 | 0.84 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 22:25 | 1 |
| Toluene | ND | | 6.2 | 0.91 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 22:25 | 1 |
| Ethylbenzene | ND | | 6.2 | 0.80 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 22:25 | 1 |
| Xylenes, Total | ND | | 19 | 2.8 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 22:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *52 - 124* | *08/19/12 10:14* | *08/19/12 22:25* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *72 - 127* | *08/19/12 10:14* | *08/19/12 22:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *63 - 120* | *08/19/12 10:14* | *08/19/12 22:25* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *68 - 121* | *08/19/12 10:14* | *08/19/12 22:25* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.31 | 0.024 | mg/Kg | ☼ | | 08/21/12 23:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* | | *08/21/12 23:19* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **6.8** | | 4.0 | 2.6 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 16:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *81* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 16:38* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.7 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **260** | **B** | 210 | 29 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **20** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |
| **Percent Solids** | **80** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |

## Client Sample ID: 70W

**Lab Sample ID: 180-13331-10**

**Date Collected: 08/08/12 03:50**
**Matrix: Water**
**Date Received: 08/10/12 10:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/15/12 16:22 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/15/12 16:22 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/15/12 16:22 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/15/12 16:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 135* | | *08/15/12 16:22* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *71 - 118* | | *08/15/12 16:22* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 118* | | *08/15/12 16:22* | *1* |
| *Dibromofluoromethane (Surr)* | *116* | | *70 - 128* | | *08/15/12 16:22* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

## Client Sample ID: 70W

**Lab Sample ID: 180-13331-10**

**Date Collected: 08/08/12 03:50**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 17:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *94* | | *70 - 130* | | *08/20/12 17:10* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.16** | | 0.099 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 13:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *78* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 13:04* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.2 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| TPH | ND | | 5.2 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **Halogens, Total Organic** | **0.048** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| **TOX Result 1** | **0.052** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| **TOX Result 2** | **0.044** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |

## Client Sample ID: 06WD

**Lab Sample ID: 180-13331-11**

**Date Collected: 08/08/12 12:30**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/18/12 01:30 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/18/12 01:30 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/18/12 01:30 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:30 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/18/12 01:30 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:30 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:30 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:30 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 01:30 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/18/12 01:30 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 01:30 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/18/12 01:30 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/18/12 01:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/18/12 01:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/18/12 01:30 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/18/12 01:30 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/18/12 01:30 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:30 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/18/12 01:30 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/18/12 01:30 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

**Client Sample ID: 06WD**
**Date Collected: 08/08/12 12:30**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-11**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/18/12 01:30 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/18/12 01:30 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/18/12 01:30 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/18/12 01:30 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/18/12 01:30 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/18/12 01:30 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/18/12 01:30 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/18/12 01:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/18/12 01:30 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 01:30 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/18/12 01:30 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/18/12 01:30 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 01:30 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 01:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 08/18/12 01:30 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/18/12 01:30 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/18/12 01:30 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/18/12 01:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *62 - 123* | | *08/18/12 01:30* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *80 - 120* | | *08/18/12 01:30* | *1* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *75 - 120* | | *08/18/12 01:30* | *1* |
| *Dibromofluoromethane (Surr)* | *107* | | *80 - 120* | | *08/18/12 01:30* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 17:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 130* | | *08/20/12 17:35* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.76** | | 0.088 | 0.044 | mg/L | | 08/15/12 15:19 | 08/22/12 13:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *67* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 13:18* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.40 | 0.10 | ug/L | | 08/13/12 13:15 | 08/27/12 21:31 | 1 |
| PCB-1221 | ND | | 0.40 | 0.10 | ug/L | | 08/13/12 13:15 | 08/27/12 21:31 | 1 |
| PCB-1232 | ND | | 0.40 | 0.12 | ug/L | | 08/13/12 13:15 | 08/27/12 21:31 | 1 |

## Client Sample ID: 06WD

**Date Collected: 08/08/12 12:30**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-11**
**Matrix: Water**

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1242 | ND | | 0.40 | 0.074 | ug/L | | 08/13/12 13:15 | 08/27/12 21:31 | 1 |
| PCB-1248 | ND | | 0.40 | 0.091 | ug/L | | 08/13/12 13:15 | 08/27/12 21:31 | 1 |
| PCB-1254 | ND | | 0.40 | 0.092 | ug/L | | 08/13/12 13:15 | 08/27/12 21:31 | 1 |
| PCB-1260 | ND | | 0.40 | 0.054 | ug/L | | 08/13/12 13:15 | 08/27/12 21:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *77* | | *35 - 140* | *08/13/12 13:15* | *08/27/12 21:31* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *83* | | *35 - 140* | *08/13/12 13:15* | *08/27/12 21:31* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **70** | | 10 | 2.7 | ug/L | | 08/13/12 16:34 | 08/24/12 00:36 | 1 |
| **Barium** | **510** | | 200 | 0.62 | ug/L | | 08/13/12 16:34 | 08/24/12 00:36 | 1 |
| **Cadmium** | **2.4** | **J** | 5.0 | 0.13 | ug/L | | 08/13/12 16:34 | 08/24/12 00:36 | 1 |
| **Chromium** | **120** | | 5.0 | 0.57 | ug/L | | 08/13/12 16:34 | 08/24/12 00:36 | 1 |
| **Lead** | **180** | | 3.0 | 1.3 | ug/L | | 08/13/12 16:34 | 08/24/12 00:36 | 1 |
| **Selenium** | **8.3** | | 5.0 | 3.0 | ug/L | | 08/13/12 16:34 | 08/24/12 00:36 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/13/12 16:34 | 08/24/12 00:36 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.35** | | 0.20 | 0.038 | ug/L | | 08/30/12 07:14 | 08/30/12 13:02 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.2** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **TPH** | **1.8** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |

## Client Sample ID: 10W@2-4'

**Date Collected: 08/08/12 08:30**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-12**
**Matrix: Solid**
**Percent Solids: 83.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.0 | 0.81 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 15:59 | 1 |
| Toluene | ND | | 6.0 | 0.87 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 15:59 | 1 |
| Ethylbenzene | ND | | 6.0 | 0.77 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 15:59 | 1 |
| Xylenes, Total | ND | | 18 | 2.7 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 15:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *78* | | *52 - 124* | *08/19/12 10:14* | *08/19/12 15:59* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *72 - 127* | *08/19/12 10:14* | *08/19/12 15:59* | *1* |
| *4-Bromofluorobenzene (Surr)* | *81* | | *63 - 120* | *08/19/12 10:14* | *08/19/12 15:59* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *68 - 121* | *08/19/12 10:14* | *08/19/12 15:59* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.30 | 0.023 | mg/Kg | ☼ | | 08/21/12 23:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 131* | | *08/21/12 23:38* | *1* |

## Client Sample ID: 10W@2-4'

**Lab Sample ID: 180-13331-12**

**Date Collected: 08/08/12 08:30**

**Matrix: Solid**

**Date Received: 08/10/12 10:15**

**Percent Solids: 83.6**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **3.1** | **J** | 3.9 | 2.5 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 16:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *83* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 16:52* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.4 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **130** | **J B** | 200 | 27 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **16** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |
| **Percent Solids** | **84** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |

## Client Sample ID: 10W

**Lab Sample ID: 180-13331-13**

**Date Collected: 08/08/12 09:15**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/15/12 17:34 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/15/12 17:34 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/15/12 17:34 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/15/12 17:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *114* | | *64 - 135* | | *08/15/12 17:34* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *71 - 118* | | *08/15/12 17:34* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 118* | | *08/15/12 17:34* | *1* |
| *Dibromofluoromethane (Surr)* | *117* | | *70 - 128* | | *08/15/12 17:34* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 18:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/20/12 18:01* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.088** | **J** | 0.098 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 13:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *57* | *X* | *62 - 130* | *08/15/12 15:19* | *08/22/12 13:32* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.053** | **J H** | 0.093 | 0.046 | mg/L | | 08/23/12 16:24 | 08/27/12 13:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *67* | | *62 - 130* | *08/23/12 16:24* | *08/27/12 13:22* | *1* |

## Client Sample ID: 10W

**Lab Sample ID: 180-13331-13**

**Date Collected: 08/08/12 09:15**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 3.1 | J | 7.1 | 2.1 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| TPH | 2.7 | J | 7.1 | 2.1 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| Halogens, Total Organic | 0.021 | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| TOX Result 1 | 0.023 | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| TOX Result 2 | 0.020 | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |

## Client Sample ID: 10WD@2-4'

**Lab Sample ID: 180-13331-14**

**Date Collected: 08/08/12 08:30**

**Matrix: Solid**

**Date Received: 08/10/12 10:15**

**Percent Solids: 79.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.3 | 0.85 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 16:23 | 1 |
| Toluene | ND | | 6.3 | 0.92 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 16:23 | 1 |
| Ethylbenzene | ND | | 6.3 | 0.81 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 16:23 | 1 |
| Xylenes, Total | ND | | 19 | 2.8 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 16:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *75* | | *52 - 124* | *08/19/12 10:14* | *08/19/12 16:23* | *1* |
| *Toluene-d8 (Surr)* | *104* | | *72 - 127* | *08/19/12 10:14* | *08/19/12 16:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *63 - 120* | *08/19/12 10:14* | *08/19/12 16:23* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *68 - 121* | *08/19/12 10:14* | *08/19/12 16:23* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.32 | 0.024 | mg/Kg | ☼ | | 08/21/12 23:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/21/12 23:58* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 4.2 | 2.7 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 17:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *78* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 17:07* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 13 | 8.8 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| HEM | 130 | J B | 210 | 29 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 21 | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |
| Percent Solids | 79 | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |

## Client Sample ID: 10WD

**Lab Sample ID: 180-13331-15**

**Date Collected: 08/08/12 09:15**

**Matrix: Water**

**Date Received: 08/10/12 10:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/15/12 17:58 | 1 |

## Client Sample ID: 10WD

**Date Collected: 08/08/12 09:15**
**Date Received: 08/10/12 10:15**

## Lab Sample ID: 180-13331-15

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/15/12 17:58 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/15/12 17:58 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/15/12 17:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 135* | | *08/15/12 17:58* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *71 - 118* | | *08/15/12 17:58* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 118* | | *08/15/12 17:58* | *1* |
| *Dibromofluoromethane (Surr)* | *118* | | *70 - 128* | | *08/15/12 17:58* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 18:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/20/12 18:26* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.093** | **J** | 0.098 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 13:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *70* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 13:46* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **3.8** | **J** | 10 | 3.0 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **TPH** | **4.2** | **J** | 10 | 2.9 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| **Halogens, Total Organic** | **0.027** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| **TOX Result 1** | **0.025** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| **TOX Result 2** | **0.028** | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |

## Client Sample ID: TRIP BLANK

**Date Collected: 08/08/12 00:00**
**Date Received: 08/10/12 10:15**

## Lab Sample ID: 180-13331-16

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/18/12 00:42 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/18/12 00:42 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/18/12 00:42 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 00:42 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/18/12 00:42 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 00:42 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 00:42 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 00:42 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 00:42 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/18/12 00:42 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 00:42 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/18/12 00:42 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 00:42 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

**Client Sample ID: TRIP BLANK**
**Date Collected: 08/08/12 00:00**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-16**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/18/12 00:42 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/18/12 00:42 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/18/12 00:42 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/18/12 00:42 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/18/12 00:42 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 00:42 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/18/12 00:42 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/18/12 00:42 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/18/12 00:42 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/18/12 00:42 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/18/12 00:42 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/18/12 00:42 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/18/12 00:42 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/18/12 00:42 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/18/12 00:42 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/18/12 00:42 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 00:42 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/18/12 00:42 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/18/12 00:42 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/18/12 00:42 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/18/12 00:42 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 08/18/12 00:42 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/18/12 00:42 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/18/12 00:42 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/18/12 00:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *86* | | *62 - 123* | | *08/18/12 00:42* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *08/18/12 00:42* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *75 - 120* | | *08/18/12 00:42* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *80 - 120* | | *08/18/12 00:42* | *1* |

**Client Sample ID: 01@2-4'**
**Date Collected: 08/09/12 08:30**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-17**
**Matrix: Solid**
**Percent Solids: 80.5**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.2 | 0.84 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 16:47 | 1 |

**Client Sample ID: 01@2-4'**
**Date Collected: 08/09/12 08:30**
**Date Received: 08/10/12 10:15**

**Lab Sample ID: 180-13331-17**
**Matrix: Solid**
**Percent Solids: 80.5**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 6.2 | 0.91 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 16:47 | 1 |
| Ethylbenzene | ND | | 6.2 | 0.80 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 16:47 | 1 |
| Xylenes, Total | ND | | 19 | 2.8 | ug/Kg | ☼ | 08/19/12 10:14 | 08/19/12 16:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *52 - 124* | *08/19/12 10:14* | *08/19/12 16:47* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *72 - 127* | *08/19/12 10:14* | *08/19/12 16:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *84* | | *63 - 120* | *08/19/12 10:14* | *08/19/12 16:47* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *68 - 121* | *08/19/12 10:14* | *08/19/12 16:47* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.31 | 0.024 | mg/Kg | ☼ | | 08/22/12 00:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* | | *08/22/12 00:17* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **5.5** | | 4.0 | 2.6 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 17:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *58* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 17:20* | *1* |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.7 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **Halogens, Extractable Organic** | **1100** | | 12 | 8.7 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **Halogens, Extractable Organic** | **1070** | | 12 | 8.7 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **290** | **B** | 210 | 29 | mg/Kg | ☼ | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **19** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |
| **Percent Solids** | **81** | | 0.10 | 0.10 | % | | | 08/13/12 17:20 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-45071/4**
**Matrix: Water**
**Analysis Batch: 45071**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/15/12 10:43 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/15/12 10:43 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/15/12 10:43 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/15/12 10:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *127* | | *64 - 135* | | *08/15/12 10:43* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *71 - 118* | | *08/15/12 10:43* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 118* | | *08/15/12 10:43* | *1* |
| *Dibromofluoromethane (Surr)* | *108* | | *70 - 128* | | *08/15/12 10:43* | *1* |

**Lab Sample ID: LCS 180-45071/7**
**Matrix: Water**
**Analysis Batch: 45071**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 10.5 | | ug/L | | 105 | 80 - 120 |
| Ethylbenzene | 10.0 | 10.9 | | ug/L | | 109 | 72 - 126 |
| Toluene | 10.0 | 11.5 | | ug/L | | 115 | 80 - 123 |
| Xylenes, Total | 30.0 | 32.0 | | ug/L | | 107 | 76 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *111* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *102* | | *70 - 128* |

**Lab Sample ID: MB 180-45122/4**
**Matrix: Water**
**Analysis Batch: 45122**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/15/12 11:45 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/15/12 11:45 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/15/12 11:45 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/15/12 11:45 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *103* | | *64 - 135* | | *08/15/12 11:45* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *71 - 118* | | *08/15/12 11:45* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 118* | | *08/15/12 11:45* | *1* |
| *Dibromofluoromethane (Surr)* | *114* | | *70 - 128* | | *08/15/12 11:45* | *1* |

**Lab Sample ID: LCS 180-45122/5**
**Matrix: Water**
**Analysis Batch: 45122**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 10.5 | | ug/L | | 105 | 80 - 120 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45122/5**
**Matrix: Water**
**Analysis Batch: 45122**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | | | 10.0 | 10.7 | | ug/L | | 107 | 72 - 126 | | |
| Toluene | | | 10.0 | 9.95 | | ug/L | | 99 | 80 - 123 | | |
| Xylenes, Total | | | 30.0 | 31.6 | | ug/L | | 105 | 76 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *97* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *105* | | *70 - 128* |

**Lab Sample ID: LCSD 180-45122/6**
**Matrix: Water**
**Analysis Batch: 45122**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 10.0 | 9.72 | | ug/L | | 97 | 80 - 120 | 8 | 32 |
| Ethylbenzene | | | 10.0 | 10.0 | | ug/L | | 100 | 72 - 126 | 7 | 33 |
| Toluene | | | 10.0 | 9.53 | | ug/L | | 95 | 80 - 123 | 4 | 35 |
| Xylenes, Total | | | 30.0 | 30.0 | | ug/L | | 100 | 76 - 128 | 5 | 32 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *92* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *95* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *103* | | *70 - 128* |

**Lab Sample ID: MB 180-45177/1-A**
**Matrix: Solid**
**Analysis Batch: 45187**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45177**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/16/12 03:57 | 08/16/12 06:05 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/16/12 03:57 | 08/16/12 06:05 | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 08/16/12 03:57 | 08/16/12 06:05 | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 08/16/12 03:57 | 08/16/12 06:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *52 - 124* | *08/16/12 03:57* | *08/16/12 06:05* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *72 - 127* | *08/16/12 03:57* | *08/16/12 06:05* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *63 - 120* | *08/16/12 03:57* | *08/16/12 06:05* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *68 - 121* | *08/16/12 03:57* | *08/16/12 06:05* | *1* |

**Lab Sample ID: LCS 180-45177/2-A**
**Matrix: Solid**
**Analysis Batch: 45187**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45177**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 40.0 | 34.7 | | ug/Kg | | 87 | 77 - 120 | | |
| Ethylbenzene | | | 40.0 | 36.1 | | ug/Kg | | 90 | 78 - 125 | | |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45177/2-A**
**Matrix: Solid**
**Analysis Batch: 45187**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45177**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Xylenes, Total | | | 120 | 106 | | ug/Kg | | 89 | 83 - 126 | | |
| Toluene | | | 40.0 | 34.7 | | ug/Kg | | 87 | 78 - 124 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *86* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *94* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *96* | | *68 - 121* |

**Lab Sample ID: LCSD 180-45177/3-A**
**Matrix: Solid**
**Analysis Batch: 45187**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45177**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 40.0 | 35.4 | | ug/Kg | | 89 | 77 - 120 | 2 | 20 |
| Ethylbenzene | | | 40.0 | 37.5 | | ug/Kg | | 94 | 78 - 125 | 4 | 21 |
| Xylenes, Total | | | 120 | 111 | | ug/Kg | | 93 | 83 - 126 | 5 | 20 |
| Toluene | | | 40.0 | 34.7 | | ug/Kg | | 87 | 78 - 124 | 0 | 21 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *84* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *97* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *93* | | *68 - 121* |

**Lab Sample ID: MB 180-45466/3**
**Matrix: Water**
**Analysis Batch: 45466**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/17/12 18:05 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/17/12 18:05 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/17/12 18:05 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/17/12 18:05 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/17/12 18:05 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/17/12 18:05 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/17/12 18:05 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/17/12 18:05 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/17/12 18:05 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/17/12 18:05 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/17/12 18:05 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/17/12 18:05 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/17/12 18:05 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/17/12 18:05 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45466/3**
**Matrix: Water**
**Analysis Batch: 45466**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/17/12 18:05 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/17/12 18:05 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/17/12 18:05 | 1 |
| Methylene Chloride | 1.39 | J | 5.0 | 1.1 | ug/L | | | 08/17/12 18:05 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/17/12 18:05 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/17/12 18:05 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/17/12 18:05 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/17/12 18:05 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/17/12 18:05 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/17/12 18:05 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/17/12 18:05 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/17/12 18:05 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/17/12 18:05 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/17/12 18:05 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/17/12 18:05 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/17/12 18:05 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/17/12 18:05 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/17/12 18:05 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/17/12 18:05 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 08/17/12 18:05 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/17/12 18:05 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/17/12 18:05 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/17/12 18:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *62 - 123* | | *08/17/12 18:05* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *80 - 120* | | *08/17/12 18:05* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* | | *08/17/12 18:05* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *80 - 120* | | *08/17/12 18:05* | *1* |

**Lab Sample ID: LCS 180-45466/5**
**Matrix: Water**
**Analysis Batch: 45466**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 28.9 | | ug/L | | 72 | 10 - 141 |
| Dichlorobromomethane | 40.0 | 41.0 | | ug/L | | 102 | 71 - 119 |
| Benzene | 40.0 | 43.3 | | ug/L | | 108 | 80 - 120 |
| Bromoform | 40.0 | 44.2 | | ug/L | | 110 | 49 - 137 |
| Bromomethane | 40.0 | 43.0 | | ug/L | | 108 | 45 - 150 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45466/5**
**Matrix: Water**
**Analysis Batch: 45466**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2-Butanone (MEK) | 40.0 | 39.1 | | ug/L | | 98 | 31 - 139 |
| Carbon disulfide | 40.0 | 44.6 | | ug/L | | 111 | 62 - 126 |
| Carbon tetrachloride | 40.0 | 43.8 | | ug/L | | 110 | 63 - 139 |
| Chlorobenzene | 40.0 | 43.1 | | ug/L | | 108 | 83 - 120 |
| Chloroethane | 40.0 | 43.3 | | ug/L | | 108 | 33 - 150 |
| Chloroform | 40.0 | 41.9 | | ug/L | | 105 | 77 - 119 |
| Chloromethane | 40.0 | 42.4 | | ug/L | | 106 | 49 - 133 |
| Chlorodibromomethane | 40.0 | 43.7 | | ug/L | | 109 | 64 - 124 |
| 1,1-Dichloroethane | 40.0 | 43.3 | | ug/L | | 108 | 77 - 122 |
| 1,2-Dichloroethane | 40.0 | 41.4 | | ug/L | | 103 | 63 - 140 |
| 1,1-Dichloroethene | 40.0 | 43.8 | | ug/L | | 110 | 69 - 127 |
| 1,2-Dichloropropane | 40.0 | 43.1 | | ug/L | | 108 | 75 - 114 |
| cis-1,3-Dichloropropene | 40.0 | 44.9 | | ug/L | | 112 | 74 - 123 |
| trans-1,3-Dichloropropene | 40.0 | 44.7 | | ug/L | | 112 | 63 - 122 |
| Ethylbenzene | 40.0 | 45.3 | | ug/L | | 113 | 79 - 124 |
| 2-Hexanone | 40.0 | 37.2 | | ug/L | | 93 | 35 - 129 |
| Methylene Chloride | 40.0 | 40.2 | | ug/L | | 101 | 75 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 44.2 | | ug/L | | 110 | 33 - 135 |
| Styrene | 40.0 | 45.2 | | ug/L | | 113 | 78 - 124 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 43.0 | | ug/L | | 108 | 59 - 136 |
| Tetrachloroethene | 40.0 | 45.0 | | ug/L | | 113 | 78 - 126 |
| 1,1,1-Trichloroethane | 40.0 | 43.2 | | ug/L | | 108 | 69 - 134 |
| 1,1,2-Trichloroethane | 40.0 | 42.4 | | ug/L | | 106 | 75 - 126 |
| Trichloroethene | 40.0 | 43.2 | | ug/L | | 108 | 80 - 120 |
| Vinyl chloride | 40.0 | 43.7 | | ug/L | | 109 | 57 - 128 |
| Xylenes, Total | 120 | 135 | | ug/L | | 113 | 81 - 121 |
| Cyclohexane | 40.0 | 46.2 | | ug/L | | 116 | 69 - 124 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 44.3 | | ug/L | | 111 | 28 - 150 |
| 1,2-Dibromoethane (EDB) | 40.0 | 42.1 | | ug/L | | 105 | 57 - 124 |
| Dichlorodifluoromethane | 40.0 | 41.8 | | ug/L | | 104 | 28 - 140 |
| cis-1,2-Dichloroethene | 40.0 | 43.1 | | ug/L | | 108 | 82 - 116 |
| trans-1,2-Dichloroethene | 40.0 | 41.9 | | ug/L | | 105 | 78 - 120 |
| Isopropylbenzene | 40.0 | 45.5 | | ug/L | | 114 | 73 - 130 |
| Methyl acetate | 40.0 | 41.6 | | ug/L | | 104 | 34 - 127 |
| Methylcyclohexane | 40.0 | 45.6 | | ug/L | | 114 | 67 - 120 |
| Methyl tert-butyl ether | 40.0 | 43.4 | | ug/L | | 108 | 53 - 122 |
| Trichlorofluoromethane | 40.0 | 41.5 | | ug/L | | 104 | 14 - 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 43.4 | | ug/L | | 109 | 70 - 131 |
| 1,2-Dichlorobenzene | 40.0 | 41.6 | | ug/L | | 104 | 75 - 125 |
| 1,3-Dichlorobenzene | 40.0 | 42.2 | | ug/L | | 105 | 76 - 125 |
| 1,4-Dichlorobenzene | 40.0 | 42.4 | | ug/L | | 106 | 76 - 123 |
| 1,2,4-Trichlorobenzene | 40.0 | 39.6 | | ug/L | | 99 | 35 - 150 |
| Toluene | 40.0 | 44.5 | | ug/L | | 111 | 80 - 124 |
| o-Xylene | 40.0 | 45.0 | | ug/L | | 113 | 78 - 124 |
| m-Xylene & p-Xylene | 80.0 | 90.2 | | ug/L | | 113 | 78 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *62 - 123* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45466/5**
**Matrix: Water**
**Analysis Batch: 45466**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *80 - 120* |

**Lab Sample ID: MB 180-45512/1-A**
**Matrix: Solid**
**Analysis Batch: 45511**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45512**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/19/12 10:14 | 08/19/12 12:51 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/19/12 10:14 | 08/19/12 12:51 | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 08/19/12 10:14 | 08/19/12 12:51 | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 08/19/12 10:14 | 08/19/12 12:51 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *52 - 124* | *08/19/12 10:14* | *08/19/12 12:51* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *72 - 127* | *08/19/12 10:14* | *08/19/12 12:51* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *63 - 120* | *08/19/12 10:14* | *08/19/12 12:51* | *1* |
| *Dibromofluoromethane (Surr)* | *98* | | *68 - 121* | *08/19/12 10:14* | *08/19/12 12:51* | *1* |

**Lab Sample ID: LCS 180-45512/2-A**
**Matrix: Solid**
**Analysis Batch: 45511**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45512**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 40.0 | 34.5 | | ug/Kg | | 86 | 77 - 120 |
| Ethylbenzene | 40.0 | 38.3 | | ug/Kg | | 96 | 78 - 125 |
| Xylenes, Total | 120 | 112 | | ug/Kg | | 94 | 83 - 126 |
| Toluene | 40.0 | 35.8 | | ug/Kg | | 89 | 78 - 124 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *87* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *99* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *68 - 121* |

## Method: 8260B - Volatile Organic Compounds by GC/MS

**Lab Sample ID: LCS 180-45410/6**
**Matrix: Solid**
**Analysis Batch: 45410**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.400 | 0.410 | | mg/L | | 102 | 80 - 120 |
| 2-Butanone (MEK) | 0.400 | 0.320 | | mg/L | | 80 | 31 - 139 |
| Carbon tetrachloride | 0.400 | 0.366 | | mg/L | | 91 | 63 - 139 |
| Chlorobenzene | 0.400 | 0.419 | | mg/L | | 105 | 83 - 120 |
| Chloroform | 0.400 | 0.369 | | mg/L | | 92 | 77 - 119 |
| 1,2-Dichloroethane | 0.400 | 0.334 | | mg/L | | 83 | 63 - 140 |

## Method: 8260B - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 180-45410/6**
**Matrix: Solid**
**Analysis Batch: 45410**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.400 | 0.424 | | mg/L | | 106 | 69 - 127 |
| Tetrachloroethene | 0.400 | 0.439 | | mg/L | | 110 | 78 - 126 |
| Trichloroethene | 0.400 | 0.409 | | mg/L | | 102 | 80 - 120 |
| Vinyl chloride | 0.400 | 0.396 | | mg/L | | 99 | 57 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *82* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 120* |

**Lab Sample ID: LCSD 180-45410/7**
**Matrix: Solid**
**Analysis Batch: 45410**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.400 | 0.404 | | mg/L | | 101 | 80 - 120 | 1 | 20 |
| 2-Butanone (MEK) | 0.400 | 0.365 | | mg/L | | 91 | 31 - 139 | 13 | 35 |
| Carbon tetrachloride | 0.400 | 0.356 | | mg/L | | 89 | 63 - 139 | 3 | 25 |
| Chlorobenzene | 0.400 | 0.410 | | mg/L | | 103 | 83 - 120 | 2 | 20 |
| Chloroform | 0.400 | 0.368 | | mg/L | | 92 | 77 - 119 | 0 | 20 |
| 1,2-Dichloroethane | 0.400 | 0.324 | | mg/L | | 81 | 63 - 140 | 3 | 25 |
| 1,1-Dichloroethene | 0.400 | 0.410 | | mg/L | | 102 | 69 - 127 | 3 | 20 |
| Tetrachloroethene | 0.400 | 0.423 | | mg/L | | 106 | 78 - 126 | 4 | 25 |
| Trichloroethene | 0.400 | 0.407 | | mg/L | | 102 | 80 - 120 | 1 | 20 |
| Vinyl chloride | 0.400 | 0.385 | | mg/L | | 96 | 57 - 128 | 3 | 26 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 120* |

**Lab Sample ID: LB 180-44981/12-A LB**
**Matrix: Solid**
**Analysis Batch: 45410**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.050 | 0.0099 | mg/L | | | 08/17/12 10:43 | 10 |
| 2-Butanone (MEK) | ND | | 0.050 | 0.011 | mg/L | | | 08/17/12 10:43 | 10 |
| Carbon tetrachloride | ND | | 0.050 | 0.011 | mg/L | | | 08/17/12 10:43 | 10 |
| Chlorobenzene | ND | | 0.050 | 0.0053 | mg/L | | | 08/17/12 10:43 | 10 |
| Chloroform | ND | | 0.050 | 0.010 | mg/L | | | 08/17/12 10:43 | 10 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.0096 | mg/L | | | 08/17/12 10:43 | 10 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.011 | mg/L | | | 08/17/12 10:43 | 10 |
| Tetrachloroethene | ND | | 0.050 | 0.0082 | mg/L | | | 08/17/12 10:43 | 10 |
| Trichloroethene | ND | | 0.050 | 0.0080 | mg/L | | | 08/17/12 10:43 | 10 |
| Vinyl chloride | ND | | 0.050 | 0.013 | mg/L | | | 08/17/12 10:43 | 10 |

## Method: 8260B - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LB 180-44981/12-A LB**
**Matrix: Solid**
**Analysis Batch: 45410**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Surrogate | LB %Recovery | LB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *81* | | *62 - 123* | | *08/17/12 10:43* | *10* |
| *Toluene-d8 (Surr)* | *113* | | *80 - 120* | | *08/17/12 10:43* | *10* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *75 - 120* | | *08/17/12 10:43* | *10* |
| *Dibromofluoromethane (Surr)* | *90* | | *80 - 120* | | *08/17/12 10:43* | *10* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

**Lab Sample ID: MB 180-45004/1-A**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45004**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *58* | | *19 - 138* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *2-Fluorobiphenyl* | *61* | | *35 - 115* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *2-Fluorophenol* | *74* | | *20 - 110* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *Nitrobenzene-d5* | *74* | | *39 - 115* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *Phenol-d5* | *79* | | *30 - 118* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *Terphenyl-d14* | *70* | | *30 - 143* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |

**Lab Sample ID: LCS 180-45004/2-A**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45004**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.250 | 0.186 | | mg/L | | 75 | 37 - 115 |
| 2,4,5-Trichlorophenol | 0.250 | 0.150 | | mg/L | | 60 | 35 - 115 |
| 2,4,6-Trichlorophenol | 0.250 | 0.152 | | mg/L | | 61 | 40 - 115 |
| 2,4-Dinitrotoluene | 0.250 | 0.138 | | mg/L | | 55 | 40 - 115 |
| 2-Methylphenol | 0.250 | 0.185 | | mg/L | | 74 | 43 - 115 |
| Hexachlorobenzene | 0.250 | 0.151 | | mg/L | | 60 | 45 - 115 |
| Hexachlorobutadiene | 0.250 | 0.177 | | mg/L | | 71 | 42 - 115 |
| Hexachloroethane | 0.250 | 0.183 | | mg/L | | 73 | 25 - 106 |
| Nitrobenzene | 0.250 | 0.192 | | mg/L | | 77 | 40 - 115 |
| Pentachlorophenol | 0.250 | 0.103 | J | mg/L | | 41 | 16 - 140 |
| Pyridine | 0.250 | 0.200 | | mg/L | | 80 | 22 - 105 |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45004/2-A**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45004**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Methylphenol, 3 & 4 | | | 0.500 | 0.409 | | mg/L | | 82 | 30 - 121 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol* | *71* | | *19 - 138* |
| *2-Fluorobiphenyl* | *68* | | *35 - 115* |
| *2-Fluorophenol* | *81* | | *20 - 110* |
| *Nitrobenzene-d5* | *82* | | *39 - 115* |
| *Phenol-d5* | *88* | | *30 - 118* |
| *Terphenyl-d14* | *80* | | *30 - 143* |

**Lab Sample ID: LCSD 180-45004/3-A**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45004**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | | | 0.250 | 0.189 | | mg/L | | 76 | 37 - 115 | 1 | 35 |
| 2,4,5-Trichlorophenol | | | 0.250 | 0.168 | | mg/L | | 67 | 35 - 115 | 11 | 40 |
| 2,4,6-Trichlorophenol | | | 0.250 | 0.154 | | mg/L | | 61 | 40 - 115 | 1 | 37 |
| 2,4-Dinitrotoluene | | | 0.250 | 0.145 | | mg/L | | 58 | 40 - 115 | 4 | 42 |
| 2-Methylphenol | | | 0.250 | 0.163 | | mg/L | | 65 | 43 - 115 | 13 | 47 |
| Hexachlorobenzene | | | 0.250 | 0.147 | | mg/L | | 59 | 45 - 115 | 3 | 22 |
| Hexachlorobutadiene | | | 0.250 | 0.179 | | mg/L | | 72 | 42 - 115 | 1 | 28 |
| Hexachloroethane | | | 0.250 | 0.180 | | mg/L | | 72 | 25 - 106 | 1 | 38 |
| Nitrobenzene | | | 0.250 | 0.201 | | mg/L | | 80 | 40 - 115 | 4 | 26 |
| Pentachlorophenol | | | 0.250 | 0.0940 | J | mg/L | | 38 | 16 - 140 | 9 | 40 |
| Pyridine | | | 0.250 | 0.202 | | mg/L | | 81 | 22 - 105 | 1 | 40 |
| Methylphenol, 3 & 4 | | | 0.500 | 0.404 | | mg/L | | 81 | 30 - 121 | 1 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol* | *67* | | *19 - 138* |
| *2-Fluorobiphenyl* | *71* | | *35 - 115* |
| *2-Fluorophenol* | *80* | | *20 - 110* |
| *Nitrobenzene-d5* | *83* | | *39 - 115* |
| *Phenol-d5* | *88* | | *30 - 118* |
| *Terphenyl-d14* | *78* | | *30 - 143* |

**Lab Sample ID: LB 180-44820/27-B LB**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45004**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LB 180-44820/27-B LB**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45004**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *65* | | *19 - 138* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *2-Fluorobiphenyl* | *67* | | *35 - 115* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *2-Fluorophenol* | *78* | | *20 - 110* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *Nitrobenzene-d5* | *81* | | *39 - 115* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *Phenol-d5* | *85* | | *30 - 118* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *Terphenyl-d14* | *77* | | *30 - 143* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-247175/8**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 10:57 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/20/12 10:57* | *1* |

**Lab Sample ID: LCS 680-247175/9**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.198 | | mg/L | | 99 | 70 - 148 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* |

**Lab Sample ID: LCSD 680-247175/2**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.206 | | mg/L | | 103 | 70 - 148 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 130* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: MB 680-247361/3**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/21/12 11:18 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/21/12 11:18* | *1* |

**Lab Sample ID: LCS 680-247361/4**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 1.00 | 0.967 | | mg/Kg | | 97 | 64 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247361/5**
**Matrix: Solid**
**Analysis Batch: 247361**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 1.00 | 0.907 | | mg/Kg | | 91 | 64 - 133 | 6 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

**Lab Sample ID: MB 680-247420/23**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/21/12 19:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/21/12 19:05* | *1* |

**Lab Sample ID: MB 680-247420/3**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 5.0 | 0.38 | mg/Kg | | | 08/21/12 19:25 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* | | *08/21/12 19:25* | *20* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCS 680-247420/5**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.892 | | mg/Kg | | 89 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247420/6**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.996 | | mg/Kg | | 100 | 64 - 133 | 11 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247420/7**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 32.6 | | mg/Kg | | 82 | 64 - 133 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-246741/9-A**
**Matrix: Water**
**Analysis Batch: 247518**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246741**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 08/15/12 15:19 | 08/22/12 11:26 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *92* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 11:26* | *1* |

**Lab Sample ID: LCS 680-246741/10-A**
**Matrix: Water**
**Analysis Batch: 247518**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246741**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 1.00 | 0.617 | | mg/L | | 62 | 25 - 145 | | |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 680-246741/10-A**
**Matrix: Water**
**Analysis Batch: 247518**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246741**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 83 | | 62 - 130 |

**Lab Sample ID: LCSD 680-246741/11-A**
**Matrix: Water**
**Analysis Batch: 247518**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 246741**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 1.00 | 0.671 | | mg/L | | 67 | 25 - 145 | 8 | 50 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 89 | | 62 - 130 |

**Lab Sample ID: MB 680-246815/21-A**
**Matrix: Solid**
**Analysis Batch: 247943**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246815**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/16/12 14:46 | 08/27/12 15:00 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 106 | | 56 - 135 | 08/16/12 14:46 | 08/27/12 15:00 | 1 |

**Lab Sample ID: LCS 680-246815/22-A**
**Matrix: Solid**
**Analysis Batch: 247943**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246815**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 32.9 | 27.7 | | mg/Kg | | 84 | 19 - 171 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 90 | | 56 - 135 |

**Lab Sample ID: MB 680-247548/5-A**
**Matrix: Water**
**Analysis Batch: 247888**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247548**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 08/23/12 16:24 | 08/27/12 12:12 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 106 | | 62 - 130 | 08/23/12 16:24 | 08/27/12 12:12 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 680-247548/6-A**
**Matrix: Water**
**Analysis Batch: 247888**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247548**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.00 | 0.662 | | mg/L | | 66 | 25 - 145 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *86* | | *62 - 130* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-44798/1-A**
**Matrix: Water**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44798**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.40 | 0.10 | ug/L | | 08/13/12 13:15 | 08/27/12 21:59 | 1 |
| PCB-1221 | ND | | 0.40 | 0.10 | ug/L | | 08/13/12 13:15 | 08/27/12 21:59 | 1 |
| PCB-1232 | ND | | 0.40 | 0.12 | ug/L | | 08/13/12 13:15 | 08/27/12 21:59 | 1 |
| PCB-1242 | ND | | 0.40 | 0.074 | ug/L | | 08/13/12 13:15 | 08/27/12 21:59 | 1 |
| PCB-1248 | ND | | 0.40 | 0.091 | ug/L | | 08/13/12 13:15 | 08/27/12 21:59 | 1 |
| PCB-1254 | ND | | 0.40 | 0.092 | ug/L | | 08/13/12 13:15 | 08/27/12 21:59 | 1 |
| PCB-1260 | ND | | 0.40 | 0.054 | ug/L | | 08/13/12 13:15 | 08/27/12 21:59 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *82* | | *35 - 140* | *08/13/12 13:15* | *08/27/12 21:59* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* | *08/13/12 13:15* | *08/27/12 21:59* | *1* |

**Lab Sample ID: LCS 180-44798/2-A**
**Matrix: Water**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44798**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* |

**Lab Sample ID: LCSD 180-44798/3-A**
**Matrix: Water**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 44798**

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *92* | | *35 - 140* |

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 16:21* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 16:21* | *1* |

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46972**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *94* | | *35 - 140* | *08/18/12 05:50* | *08/30/12 11:52* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *78* | | *35 - 140* | *08/18/12 05:50* | *08/30/12 11:52* | *1* |

**Lab Sample ID: LCS 180-45454/2-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 1330 | 1030 | | ug/Kg | | 77 | 55 - 130 |
| PCB-1260 | 1330 | 1090 | | ug/Kg | | 82 | 54 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* |

**Lab Sample ID: 180-13331-1 MS**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: 06W@5-7'**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 1540 | 1130 | | ug/Kg | ☼ | 73 | 55 - 130 |
| PCB-1260 | ND | | 1540 | 1190 | | ug/Kg | ☼ | 77 | 54 - 130 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 180-13331-1 MS**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: 06W@5-7'**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *76* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *80* | | *35 - 140* |

**Lab Sample ID: 180-13331-1 MSD**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: 06W@5-7'**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 1540 | 1060 | | ug/Kg | ☼ | 69 | 55 - 130 | 6 | 35 |
| PCB-1260 | ND | | 1540 | 1140 | | ug/Kg | ☼ | 74 | 54 - 130 | 4 | 29 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *72* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *79* | | *35 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 180-44835/1-A**
**Matrix: Water**
**Analysis Batch: 46183**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44835**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 10 | 2.7 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Barium | ND | | 200 | 0.62 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Chromium | ND | | 5.0 | 0.57 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Lead | ND | | 3.0 | 1.3 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/13/12 16:34 | 08/23/12 22:46 | 1 |

**Lab Sample ID: LCS 180-44835/2-A**
**Matrix: Water**
**Analysis Batch: 46183**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44835**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 500 | 492 | | ug/L | | 98 | 80 - 120 |
| Barium | 2000 | 1930 | | ug/L | | 96 | 80 - 120 |
| Cadmium | 50.0 | 48.0 | | ug/L | | 96 | 80 - 120 |
| Chromium | 200 | 194 | | ug/L | | 97 | 80 - 120 |
| Lead | 500 | 488 | | ug/L | | 98 | 80 - 120 |
| Selenium | 500 | 486 | | ug/L | | 97 | 80 - 120 |
| Silver | 50.0 | 49.9 | | ug/L | | 100 | 80 - 120 |

**Lab Sample ID: MB 180-44845/1-A**
**Matrix: Solid**
**Analysis Batch: 45042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44845**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 1.0 | 0.22 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 180-44845/1-A**
**Matrix: Solid**
**Analysis Batch: 45042**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44845**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Barium | ND | | 20 | 0.050 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Cadmium | ND | | 0.50 | 0.024 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Chromium | ND | | 0.50 | 0.085 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Lead | ND | | 0.30 | 0.15 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Selenium | ND | | 0.50 | 0.21 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |
| Silver | ND | | 0.50 | 0.058 | mg/Kg | | 08/13/12 17:44 | 08/14/12 15:19 | 1 |

**Lab Sample ID: LCS 180-44845/2-A**
**Matrix: Solid**
**Analysis Batch: 45042**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44845**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 50.0 | 48.0 | | mg/Kg | | 96 | 80 - 120 |
| Barium | 200 | 185 | | mg/Kg | | 92 | 80 - 120 |
| Cadmium | 5.00 | 4.61 | | mg/Kg | | 92 | 80 - 120 |
| Chromium | 20.0 | 18.6 | | mg/Kg | | 93 | 80 - 120 |
| Lead | 50.0 | 47.1 | | mg/Kg | | 94 | 80 - 120 |
| Selenium | 50.0 | 49.0 | | mg/Kg | | 98 | 80 - 120 |
| Silver | 5.00 | 4.63 | | mg/Kg | | 93 | 80 - 120 |

**Lab Sample ID: MB 180-45054/1-A**
**Matrix: Solid**
**Analysis Batch: 45287**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45054**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Selenium | ND | | 0.050 | 0.0030 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |

**Lab Sample ID: LCS 180-45054/2-A**
**Matrix: Solid**
**Analysis Batch: 45287**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45054**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.500 | 0.528 | | mg/L | | 106 | 80 - 120 |
| Barium | 2.00 | 1.99 | | mg/L | | 100 | 80 - 120 |
| Cadmium | 0.0500 | 0.0500 | | mg/L | | 100 | 80 - 120 |
| Chromium | 0.200 | 0.202 | | mg/L | | 101 | 80 - 120 |
| Lead | 0.500 | 0.509 | | mg/L | | 102 | 80 - 120 |
| Selenium | 0.500 | 0.544 | | mg/L | | 109 | 80 - 120 |
| Silver | 0.0500 | 0.0533 | | mg/L | | 107 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB 180-44820/27-F LB** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 45287** — **Prep Batch: 45054**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Barium | 0.00136 | J | 0.20 | 0.00062 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Selenium | 0.00665 | J | 0.050 | 0.0030 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-45210/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45292** — **Prep Batch: 45210**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/16/12 10:01 | 08/16/12 14:42 | 1 |

**Lab Sample ID: LCS 180-45210/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45292** — **Prep Batch: 45210**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00258 | | mg/L | | 103 | 80 - 120 |

**Lab Sample ID: MB 180-46832/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46906** — **Prep Batch: 46832**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/30/12 07:14 | 08/30/12 12:28 | 1 |

**Lab Sample ID: LCS 180-46832/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46906** — **Prep Batch: 46832**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.50 | 2.39 | | ug/L | | 96 | 80 - 120 |

**Lab Sample ID: LB 180-44820/27-G LB** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 45292** — **Prep Batch: 45210**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0000910 | J | 0.00020 | 0.000038 | mg/L | | 08/16/12 10:01 | 08/16/12 14:46 | 1 |

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 180-46676/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46762** — **Prep Batch: 46676**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000065 | mg/Kg | | 08/29/12 06:52 | 08/29/12 13:07 | 1 |

**Lab Sample ID: LCS 180-46676/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46762** — **Prep Batch: 46676**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00242 | | mg/Kg | | 97 | 80 - 120 |

## Method: 1664A - HEM and SGT-HEM

**Lab Sample ID: MB 180-46584/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46778** — **Prep Batch: 46584**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.0 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |
| TPH | ND | | 5.0 | 1.5 | mg/L | | 08/28/12 11:53 | 08/28/12 11:53 | 1 |

**Lab Sample ID: LCS 180-46584/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46778** — **Prep Batch: 46584**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.7 | | mg/L | | 89 | 78 - 114 |
| TPH | 20.0 | 13.9 | | mg/L | | 70 | 64 - 132 |

**Lab Sample ID: LCSD 180-46584/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46778** — **Prep Batch: 46584**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.0 | | mg/L | | 88 | 78 - 114 | 2 | 18 |
| TPH | 20.0 | 14.2 | | mg/L | | 71 | 64 - 132 | 2 | 34 |

## Method: 9012A - Cyanide, Total and/or Amenable

**Lab Sample ID: MB 180-45721/5-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45810** — **Prep Batch: 45721**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.50 | 0.097 | mg/Kg | | 08/21/12 10:10 | 08/21/12 12:51 | 1 |

**Lab Sample ID: HLCS 180-45721/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45810** — **Prep Batch: 45721**

| Analyte | Spike Added | HLCS Result | HLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.250 | 0.252 | | mg/Kg | | 101 | 90 - 110 |

## Method: 9012A - Cyanide, Total and/or Amenable (Continued)

**Lab Sample ID: LCS 180-45721/3-A**
**Matrix: Solid**
**Analysis Batch: 45810**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45721**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 28.1 | 23.7 | | mg/Kg | | 85 | 38 - 162 |

**Lab Sample ID: LCSD 180-45721/4-A**
**Matrix: Solid**
**Analysis Batch: 45810**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45721**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 28.1 | 23.2 | | mg/Kg | | 83 | 38 - 162 | 2 | 20 |

**Lab Sample ID: LLCS 180-45721/1-A**
**Matrix: Solid**
**Analysis Batch: 45810**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45721**

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.0500 | 0.0449 | | mg/Kg | | 90 | 90 - 110 |

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 680-247588/1-A**
**Matrix: Water**
**Analysis Batch: 247590**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247588**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 14:45 | 1 |

**Lab Sample ID: LCS 680-247588/2-A**
**Matrix: Water**
**Analysis Batch: 247590**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247588**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.0952 | | mg/L | | 97 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.0952 | | mg/L | | 97 | 60 - 140 |

**Lab Sample ID: MB 680-247603/1-A**
**Matrix: Water**
**Analysis Batch: 247604**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247603**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/22/12 08:20 | 08/23/12 16:23 | 1 |

**Lab Sample ID: LCS 680-247603/2-A**
**Matrix: Water**
**Analysis Batch: 247604**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247603**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.0946 | | mg/L | | 96 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.0946 | | mg/L | | 96 | 60 - 140 |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-17307/2-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 17755** — **Prep Batch: 17307**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.0 | mg/Kg | | 09/04/12 07:15 | 09/04/12 07:22 | 1 |

**Lab Sample ID: LCS 490-17307/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 17755** — **Prep Batch: 17307**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1030 | | mg/Kg | | 99 | 90 - 110 |

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

**Lab Sample ID: MB 180-44922/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 44982** — **Prep Batch: 44922**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide | ND | | 30 | 6.0 | mg/Kg | | 08/14/12 10:00 | 08/14/12 15:00 | 1 |

**Lab Sample ID: LCS 180-44922/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 44982** — **Prep Batch: 44922**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfide | 192 | 185 | | mg/Kg | | 96 | 85 - 115 |

**Lab Sample ID: LCSD 180-44922/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 44982** — **Prep Batch: 44922**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 192 | 188 | | mg/Kg | | 98 | 85 - 115 | 2 | 20 |

## Method: 9045C - pH

**Lab Sample ID: LCS 180-45258/1** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45258**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| pH | 7.00 | 6.960 | | SU | | 99 | 99 - 101 |

**Lab Sample ID: 180-13331-1 DU** — **Client Sample ID: 06W@5-7'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45258**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| pH | 6.25 | H | 6.150 | | SU | | 2 | 2 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-1

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-46666/1-A**
**Matrix: Solid**
**Analysis Batch: 46770**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46666**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 30.0 | J | 170 | 23 | mg/Kg | | 08/29/12 05:51 | 08/29/12 05:51 | 1 |

**Lab Sample ID: LCS 180-46666/2-A**
**Matrix: Solid**
**Analysis Batch: 46770**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46666**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1160 | | mg/Kg | | 87 | 78 - 114 | | |

**Lab Sample ID: LCSD 180-46666/3-A**
**Matrix: Solid**
**Analysis Batch: 46770**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 46666**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1170 | | mg/Kg | | 88 | 78 - 114 | 1 | 18 |

## Method: Moisture - Percent Moisture

**Lab Sample ID: 180-13331-1 DU**
**Matrix: Solid**
**Analysis Batch: 44843**

**Client Sample ID: 06W@5-7'**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | | 14 | | % | | | | 2 | 20 |
| Percent Solids | 85 | | | 86 | | % | | | | 0.3 | 20 |

## GC/MS VOA

### Leach Batch: 44981

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 1311 | |
| LB 180-44981/12-A LB | Method Blank | TCLP | Solid | 1311 | |

### Analysis Batch: 45071

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-3 | 08W | Total/NA | Water | 8260B | |
| 180-13331-6 | 09W | Total/NA | Water | 8260B | |
| LCS 180-45071/7 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 180-45071/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 45122

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-8 | 69W | Total/NA | Water | 8260B | |
| 180-13331-10 | 70W | Total/NA | Water | 8260B | |
| 180-13331-13 | 10W | Total/NA | Water | 8260B | |
| 180-13331-15 | 10WD | Total/NA | Water | 8260B | |
| LCS 180-45122/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-45122/6 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-45122/4 | Method Blank | Total/NA | Water | 8260B | |

### Prep Batch: 45177

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 5030B | |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 5030B | |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 5030B | |
| LCS 180-45177/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| LCSD 180-45177/3-A | Lab Control Sample Dup | Total/NA | Solid | 5030B | |
| MB 180-45177/1-A | Method Blank | Total/NA | Solid | 5030B | |

### Analysis Batch: 45187

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 8260B | 45177 |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 8260B | 45177 |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 8260B | 45177 |
| LCS 180-45177/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 45177 |
| LCSD 180-45177/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B | 45177 |
| MB 180-45177/1-A | Method Blank | Total/NA | Solid | 8260B | 45177 |

### Analysis Batch: 45410

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 8260B | 44981 |
| LB 180-44981/12-A LB | Method Blank | TCLP | Solid | 8260B | 44981 |
| LCS 180-45410/6 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 180-45410/7 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 45466

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 8260B | |
| 180-13331-11 | 06WD | Total/NA | Water | 8260B | |
| 180-13331-16 | TRIP BLANK | Total/NA | Water | 8260B | |
| LCS 180-45466/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 180-45466/3 | Method Blank | Total/NA | Water | 8260B | |

## GC/MS VOA (Continued)

### Analysis Batch: 45511

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 8260B | 45512 |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 8260B | 45512 |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 8260B | 45512 |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 8260B | 45512 |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 8260B | 45512 |
| LCS 180-45512/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 45512 |
| MB 180-45512/1-A | Method Blank | Total/NA | Solid | 8260B | 45512 |

### Prep Batch: 45512

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 5030B | |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 5030B | |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 5030B | |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 5030B | |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 5030B | |
| LCS 180-45512/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| MB 180-45512/1-A | Method Blank | Total/NA | Solid | 5030B | |

## GC/MS Semi VOA

### Leach Batch: 44820

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 1311 | |
| LB 180-44820/27-B LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 45004

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 3510C | 44820 |
| LB 180-44820/27-B LB | Method Blank | TCLP | Solid | 3510C | 44820 |
| LCS 180-45004/2-A | Lab Control Sample | Total/NA | Solid | 3510C | |
| LCSD 180-45004/3-A | Lab Control Sample Dup | Total/NA | Solid | 3510C | |
| MB 180-45004/1-A | Method Blank | Total/NA | Solid | 3510C | |

### Analysis Batch: 45181

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 8270C | 45004 |
| LB 180-44820/27-B LB | Method Blank | TCLP | Solid | 8270C | 45004 |
| LCS 180-45004/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 45004 |
| LCSD 180-45004/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 45004 |
| MB 180-45004/1-A | Method Blank | Total/NA | Solid | 8270C | 45004 |

## GC VOA

### Analysis Batch: 247175

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 8015B | |
| 180-13331-3 | 08W | Total/NA | Water | 8015B | |
| 180-13331-6 | 09W | Total/NA | Water | 8015B | |
| 180-13331-8 | 69W | Total/NA | Water | 8015B | |
| 180-13331-10 | 70W | Total/NA | Water | 8015B | |
| 180-13331-11 | 06WD | Total/NA | Water | 8015B | |
| 180-13331-13 | 10W | Total/NA | Water | 8015B | |

## GC VOA (Continued)

### Analysis Batch: 247175 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-15 | 10WD | Total/NA | Water | 8015B | |
| LCS 680-247175/9 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-247175/2 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-247175/8 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 247361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 8015B | |
| LCS 680-247361/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247361/5 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247361/3 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 247420

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 8015B | |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 8015B | |
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 8015B | |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 8015B | |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 8015B | |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 8015B | |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 8015B | |
| LCS 680-247420/5 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247420/6 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| LCSD 680-247420/7 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247420/23 | Method Blank | Total/NA | Solid | 8015B | |
| MB 680-247420/3 | Method Blank | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 44798

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 3510C | |
| 180-13331-11 | 06WD | Total/NA | Water | 3510C | |
| LCS 180-44798/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 180-44798/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 180-44798/1-A | Method Blank | Total/NA | Water | 3510C | |

### Prep Batch: 45454

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 3541 | |
| 180-13331-1 MS | 06W@5-7' | Total/NA | Solid | 3541 | |
| 180-13331-1 MSD | 06W@5-7' | Total/NA | Solid | 3541 | |
| LCS 180-45454/2-C | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 46582

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 8082 | 45454 |
| 180-13331-1 MS | 06W@5-7' | Total/NA | Solid | 8082 | 45454 |
| 180-13331-1 MSD | 06W@5-7' | Total/NA | Solid | 8082 | 45454 |
| 180-13331-2 | 06W | Total/NA | Water | 8082 | 44798 |
| 180-13331-11 | 06WD | Total/NA | Water | 8082 | 44798 |

## GC Semi VOA (Continued)

### Analysis Batch: 46582 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 180-44798/2-A | Lab Control Sample | Total/NA | Water | 8082 | 44798 |
| LCS 180-45454/2-C | Lab Control Sample | Total/NA | Solid | 8082 | 45454 |
| LCSD 180-44798/3-A | Lab Control Sample Dup | Total/NA | Water | 8082 | 44798 |
| MB 180-44798/1-A | Method Blank | Total/NA | Water | 8082 | 44798 |
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 8082 | 45454 |

### Analysis Batch: 46972

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 8082 | 45454 |

### Prep Batch: 246741

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 3520C | |
| 180-13331-3 | 08W | Total/NA | Water | 3520C | |
| 180-13331-6 | 09W | Total/NA | Water | 3520C | |
| 180-13331-8 | 69W | Total/NA | Water | 3520C | |
| 180-13331-10 | 70W | Total/NA | Water | 3520C | |
| 180-13331-11 | 06WD | Total/NA | Water | 3520C | |
| 180-13331-13 | 10W | Total/NA | Water | 3520C | |
| 180-13331-15 | 10WD | Total/NA | Water | 3520C | |
| LCS 680-246741/10-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 680-246741/11-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 680-246741/9-A | Method Blank | Total/NA | Water | 3520C | |

### Prep Batch: 246815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 3546 | |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 3546 | |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 3546 | |
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 3546 | |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 3546 | |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 3546 | |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 3546 | |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 3546 | |
| LCS 680-246815/22-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-246815/21-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 247518

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 8015B | 246741 |
| 180-13331-3 | 08W | Total/NA | Water | 8015B | 246741 |
| 180-13331-6 | 09W | Total/NA | Water | 8015B | 246741 |
| 180-13331-8 | 69W | Total/NA | Water | 8015B | 246741 |
| 180-13331-10 | 70W | Total/NA | Water | 8015B | 246741 |
| 180-13331-11 | 06WD | Total/NA | Water | 8015B | 246741 |
| 180-13331-13 | 10W | Total/NA | Water | 8015B | 246741 |
| 180-13331-15 | 10WD | Total/NA | Water | 8015B | 246741 |
| LCS 680-246741/10-A | Lab Control Sample | Total/NA | Water | 8015B | 246741 |
| LCSD 680-246741/11-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 246741 |
| MB 680-246741/9-A | Method Blank | Total/NA | Water | 8015B | 246741 |

## GC Semi VOA (Continued)

### Prep Batch: 247548

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-8 - RE | 69W | Total/NA | Water | 3520C | |
| 180-13331-13 - RE | 10W | Total/NA | Water | 3520C | |
| LCS 680-247548/6-A | Lab Control Sample | Total/NA | Water | 3520C | |
| MB 680-247548/5-A | Method Blank | Total/NA | Water | 3520C | |

### Analysis Batch: 247888

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-8 - RE | 69W | Total/NA | Water | 8015B | 247548 |
| 180-13331-13 - RE | 10W | Total/NA | Water | 8015B | 247548 |
| LCS 680-247548/6-A | Lab Control Sample | Total/NA | Water | 8015B | 247548 |
| MB 680-247548/5-A | Method Blank | Total/NA | Water | 8015B | 247548 |

### Analysis Batch: 247943

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 8015B | 246815 |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 8015B | 246815 |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 8015B | 246815 |
| LCS 680-246815/22-A | Lab Control Sample | Total/NA | Solid | 8015B | 246815 |
| MB 680-246815/21-A | Method Blank | Total/NA | Solid | 8015B | 246815 |

## Metals

### Leach Batch: 44820

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 1311 | |
| LB 180-44820/27-F LB | Method Blank | TCLP | Solid | 1311 | |
| LB 180-44820/27-G LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 44835

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 3010A | |
| 180-13331-11 | 06WD | Total/NA | Water | 3010A | |
| LCS 180-44835/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| MB 180-44835/1-A | Method Blank | Total/NA | Water | 3010A | |

### Prep Batch: 44845

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 3050B | |
| LCS 180-44845/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 180-44845/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 45042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 6010B | 44845 |
| LCS 180-44845/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 44845 |
| MB 180-44845/1-A | Method Blank | Total/NA | Solid | 6010B | 44845 |

## Metals (Continued)

### Prep Batch: 45054

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 3010A | 44820 |
| LB 180-44820/27-F LB | Method Blank | TCLP | Solid | 3010A | 44820 |
| LCS 180-45054/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |
| MB 180-45054/1-A | Method Blank | Total/NA | Solid | 3010A | |

### Prep Batch: 45210

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 7470A | 44820 |
| LB 180-44820/27-G LB | Method Blank | TCLP | Solid | 7470A | 44820 |
| LCS 180-45210/2-A | Lab Control Sample | Total/NA | Solid | 7470A | |
| MB 180-45210/1-A | Method Blank | Total/NA | Solid | 7470A | |

### Analysis Batch: 45287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 6010B | 45054 |
| LB 180-44820/27-F LB | Method Blank | TCLP | Solid | 6010B | 45054 |
| LCS 180-45054/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 45054 |
| MB 180-45054/1-A | Method Blank | Total/NA | Solid | 6010B | 45054 |

### Analysis Batch: 45292

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | TCLP | Solid | 7470A | 45210 |
| LB 180-44820/27-G LB | Method Blank | TCLP | Solid | 7470A | 45210 |
| LCS 180-45210/2-A | Lab Control Sample | Total/NA | Solid | 7470A | 45210 |
| MB 180-45210/1-A | Method Blank | Total/NA | Solid | 7470A | 45210 |

### Analysis Batch: 46183

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 6010B | 44835 |
| 180-13331-11 | 06WD | Total/NA | Water | 6010B | 44835 |
| LCS 180-44835/2-A | Lab Control Sample | Total/NA | Water | 6010B | 44835 |
| MB 180-44835/1-A | Method Blank | Total/NA | Water | 6010B | 44835 |

### Prep Batch: 46676

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 7471A | |
| LCS 180-46676/2-A | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 180-46676/1-A | Method Blank | Total/NA | Solid | 7471A | |

### Analysis Batch: 46762

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 7471A | 46676 |
| LCS 180-46676/2-A | Lab Control Sample | Total/NA | Solid | 7471A | 46676 |
| MB 180-46676/1-A | Method Blank | Total/NA | Solid | 7471A | 46676 |

### Prep Batch: 46832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 7470A | |
| 180-13331-11 | 06WD | Total/NA | Water | 7470A | |
| LCS 180-46832/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-46832/1-A | Method Blank | Total/NA | Water | 7470A | |

## Metals (Continued)

### Analysis Batch: 46906

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 7470A | 46832 |
| 180-13331-11 | 06WD | Total/NA | Water | 7470A | 46832 |
| LCS 180-46832/2-A | Lab Control Sample | Total/NA | Water | 7470A | 46832 |
| MB 180-46832/1-A | Method Blank | Total/NA | Water | 7470A | 46832 |

## General Chemistry

### Prep Batch: 17307

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9023 | |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 9023 | |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 9023 | |
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 9023 | |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 9023 | |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 9023 | |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 9023 | |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 9023 | |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 9023 | |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 9023 | |
| LCS 490-17307/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-17307/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 17755

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 9023 | 17307 |
| LCS 490-17307/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 17307 |
| MB 490-17307/2-A | Method Blank | Total/NA | Solid | 9023 | 17307 |

### Analysis Batch: 44843

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | Moisture | |
| 180-13331-1 DU | 06W@5-7' | Total/NA | Solid | Moisture | |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | Moisture | |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | Moisture | |
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | Moisture | |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | Moisture | |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | Moisture | |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | Moisture | |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | Moisture | |

### Prep Batch: 44922

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9030B | |

## General Chemistry (Continued)

### Prep Batch: 44922 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 180-44922/2-A | Lab Control Sample | Total/NA | Solid | 9030B | |
| LCSD 180-44922/3-A | Lab Control Sample Dup | Total/NA | Solid | 9030B | |
| MB 180-44922/1-A | Method Blank | Total/NA | Solid | 9030B | |

### Analysis Batch: 44982

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9034 | 44922 |
| LCS 180-44922/2-A | Lab Control Sample | Total/NA | Solid | 9034 | 44922 |
| LCSD 180-44922/3-A | Lab Control Sample Dup | Total/NA | Solid | 9034 | 44922 |
| MB 180-44922/1-A | Method Blank | Total/NA | Solid | 9034 | 44922 |

### Analysis Batch: 45258

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9045C | |
| 180-13331-1 DU | 06W@5-7' | Total/NA | Solid | 9045C | |
| LCS 180-45258/1 | Lab Control Sample | Total/NA | Solid | 9045C | |

### Prep Batch: 45721

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9012A | |
| HLCS 180-45721/2-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| LCS 180-45721/3-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| LCSD 180-45721/4-A | Lab Control Sample Dup | Total/NA | Solid | 9012A | |
| LLCS 180-45721/1-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| MB 180-45721/5-A | Method Blank | Total/NA | Solid | 9012A | |

### Analysis Batch: 45810

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9012A | 45721 |
| HLCS 180-45721/2-A | Lab Control Sample | Total/NA | Solid | 9012A | 45721 |
| LCS 180-45721/3-A | Lab Control Sample | Total/NA | Solid | 9012A | 45721 |
| LCSD 180-45721/4-A | Lab Control Sample Dup | Total/NA | Solid | 9012A | 45721 |
| LLCS 180-45721/1-A | Lab Control Sample | Total/NA | Solid | 9012A | 45721 |
| MB 180-45721/5-A | Method Blank | Total/NA | Solid | 9012A | 45721 |

### Analysis Batch: 45883

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 1020B | |

### Prep Batch: 46584

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 1664A | |
| 180-13331-3 | 08W | Total/NA | Water | 1664A | |
| 180-13331-6 | 09W | Total/NA | Water | 1664A | |
| 180-13331-8 | 69W | Total/NA | Water | 1664A | |
| 180-13331-10 | 70W | Total/NA | Water | 1664A | |
| 180-13331-11 | 06WD | Total/NA | Water | 1664A | |
| 180-13331-13 | 10W | Total/NA | Water | 1664A | |
| 180-13331-15 | 10WD | Total/NA | Water | 1664A | |
| LCS 180-46584/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-46584/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-46584/1-A | Method Blank | Total/NA | Water | 1664A | |

## General Chemistry (Continued)

### Prep Batch: 46666

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9071B | |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 9071B | |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 9071B | |
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 9071B | |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 9071B | |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 9071B | |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 9071B | |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 9071B | |
| LCS 180-46666/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-46666/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-46666/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Analysis Batch: 46770

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-1 | 06W@5-7' | Total/NA | Solid | 9071B | 46666 |
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 9071B | 46666 |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13331-7 | 69W@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13331-9 | 70W@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13331-14 | 10WD@2-4' | Total/NA | Solid | 9071B | 46666 |
| 180-13331-17 | 01@2-4' | Total/NA | Solid | 9071B | 46666 |
| LCS 180-46666/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 46666 |
| LCSD 180-46666/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 46666 |
| MB 180-46666/1-A | Method Blank | Total/NA | Solid | 9071B | 46666 |

### Analysis Batch: 46778

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-2 | 06W | Total/NA | Water | 1664A | 46584 |
| 180-13331-3 | 08W | Total/NA | Water | 1664A | 46584 |
| 180-13331-6 | 09W | Total/NA | Water | 1664A | 46584 |
| 180-13331-8 | 69W | Total/NA | Water | 1664A | 46584 |
| 180-13331-10 | 70W | Total/NA | Water | 1664A | 46584 |
| 180-13331-11 | 06WD | Total/NA | Water | 1664A | 46584 |
| 180-13331-13 | 10W | Total/NA | Water | 1664A | 46584 |
| 180-13331-15 | 10WD | Total/NA | Water | 1664A | 46584 |
| LCS 180-46584/2-A | Lab Control Sample | Total/NA | Water | 1664A | 46584 |
| LCSD 180-46584/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 46584 |
| MB 180-46584/1-A | Method Blank | Total/NA | Water | 1664A | 46584 |

### Prep Batch: 247588

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-6 | 09W | Total/NA | Water | Carbon Trap | |
| 180-13331-15 | 10WD | Total/NA | Water | Carbon Trap | |
| LCS 680-247588/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-247588/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 247590

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-6 | 09W | Total/NA | Water | 9020B | 247588 |
| 180-13331-15 | 10WD | Total/NA | Water | 9020B | 247588 |
| LCS 680-247588/2-A | Lab Control Sample | Total/NA | Water | 9020B | 247588 |

## General Chemistry (Continued)

### Analysis Batch: 247590 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 680-247588/1-A | Method Blank | Total/NA | Water | 9020B | 247588 |

### Prep Batch: 247603

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-3 | 08W | Total/NA | Water | Carbon Trap | |
| 180-13331-8 | 69W | Total/NA | Water | Carbon Trap | |
| 180-13331-10 | 70W | Total/NA | Water | Carbon Trap | |
| 180-13331-13 | 10W | Total/NA | Water | Carbon Trap | |
| LCS 680-247603/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-247603/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 247604

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-3 | 08W | Total/NA | Water | 9020B | 247603 |
| 180-13331-8 | 69W | Total/NA | Water | 9020B | 247603 |
| 180-13331-10 | 70W | Total/NA | Water | 9020B | 247603 |
| 180-13331-13 | 10W | Total/NA | Water | 9020B | 247603 |
| LCS 680-247603/2-A | Lab Control Sample | Total/NA | Water | 9020B | 247603 |
| MB 680-247603/1-A | Method Blank | Total/NA | Water | 9020B | 247603 |

180-13331

# Chain of Custody Record

3-2, 4-7, 1-9, 28 #2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

| Client Contact | | | |
|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: |
| Address: 8525 Bell Creek Rd | Telephone: | Telephone: 804-513-8080 | Telephone: |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (In BUS days) | COC No: 2 of 2 COCs |
| Phone: 804-442-3330 | | TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | For lab use only: Walk-in Client ☐ Lab picking ☐ Lab sampling ☐ Job/SDG No. |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | |
| Project Number: 12-074 | Shipping/Tracking No: | | |
| PO# 12-074 | | | |

Analyses

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C/Grab G | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & GOX | PCBs | Metals | TCLP - Full | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06WD | 8/8/12 | 12:30 | | X | | | | X | X | X | | | | | | | X | X | X | | | X | X | | |
| 10W@2-4' | | 8:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 10W | | 9:15 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 10WD@2-4' | | 8:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 10WD | 8/8/12 | 9:15 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| TRIP BLANK | " | | | X | | | | | | X | | | | | | | | | X | | | | | | |
| 01@2-4' | 8/9/12 | 8:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Company: EEE | Date/Time: 8/9/12 10:30 | Received by: | Company: TA | Date/Time: 8/9/12 1030 |
| Relinquished by: | Company: TA | Date/Time: 8/9/12 1700 | Received by: | Company: TA PM | Date/Time: 8-10-12 10:15 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

9/27/2012

# Chain of Custody Record

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

9/27/2012



| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: (804) 513-8080 | Telephone: | 1 of 2 COCs |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only |
| Phone: (804) 442-3330 | | TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐ |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | | Job/SDG No.: |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite=C / Grab=G | 0-1 & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | PCBs | Metals | TCLP (Full) | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06W @ 5-7' | 8/8/12 | 12:15 | | | | X | | | | | | | | | | | X | X | | | X | X | X | X | |
| 06W | | 12:30 | | X | | | | X | X | X | | | | | | | X | X | X | | | X | X | | |
| 08W | | 2:45 | | X | | | | X | X | X | | | | | | | X | X | | | X | | | | |
| 08W @ 3-5' | | 2:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 09W @ 2-4' | | 10:05 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 09W | | 11:00 | | X | | | | X | X | X | | | | | | | X | X | | | X | | | | |
| 69W @ 2-4' | | 4:20 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 69W | | 4:35 | | X | | | | X | X | X | | | | | | | X | X | | | X | | | | |
| 70W @ 2-4' | | 3:20 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 70W | 8/8/12 | 3:50 | | X | | | | X | X | X | | | | | | | X | X | | | X | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | Company | Date/Time | | Company | Date/Time |
|---|---|---|---|---|---|
| Relinquished by: Paul W. Leeger | EEE | 8/9/12 10:30 | Received by: | TA | 8/9/12 1030 |
| Relinquished by: | TA | 8/9/12 1700 | Received by: | TA PM | 8-10-12 1045 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13331-1

**Login Number: 13331**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13331-1

**Login Number: 13331**
**List Number: 1**
**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**
**List Creation: 08/14/12 11:55 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | N/A | |
| 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13331-3
Client Project/Site: Midtown Tunnel (MTT-MLK)

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

Veronica Bortot

*Authorized for release by:*
*10/8/2012 5:04:42 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 4
Certification Summary . . . . . 5
Sample Summary . . . . . 6
Method Summary . . . . . 7
Client Sample Results . . . . . 8
QC Sample Results . . . . . 9
QC Association . . . . . 10
Chain of Custody . . . . . 11
Receipt Checklists . . . . . 13

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-3

## Job ID: 180-13331-3

**Laboratory: TestAmerica Pittsburgh**

**Narrative**

**Job Narrative**
**180-13331-3**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/10/2012 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.9º C, 2.8º C, 3.2º C and 4.7º C.

**GC Semi VOA**
No analytical or quality issues were noted.

**Organic Prep**
Method(s) 3541: The following sample(s) was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample : 180-13331-4, 180-13331-5, 180-13331-12.

No other analytical or quality issues were noted.

# Definitions/Glossary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-3

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| H | Sample was prepped or analyzed beyond the specified holding time |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-3

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-3

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13331-4 | 08W@3-5' | Solid | 08/08/12 02:30 | 08/10/12 10:15 |
| 180-13331-5 | 09W@2-4' | Solid | 08/08/12 10:05 | 08/10/12 10:15 |
| 180-13331-12 | 10W@2-4' | Solid | 08/08/12 08:30 | 08/10/12 10:15 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-3

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-3

## Client Sample ID: 08W@3-5'

**Lab Sample ID: 180-13331-4**
**Date Collected: 08/08/12 02:30**
**Matrix: Solid**
**Date Received: 08/10/12 10:15**
**Percent Solids: 89.0**

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | H | 19 | 2.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:30 | 1 |
| PCB-1221 | ND | H | 19 | 3.6 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:30 | 1 |
| PCB-1232 | ND | H | 19 | 3.2 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:30 | 1 |
| PCB-1242 | ND | H | 19 | 3.0 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:30 | 1 |
| PCB-1248 | ND | H | 19 | 1.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:30 | 1 |
| PCB-1254 | ND | H | 19 | 2.7 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:30 | 1 |
| PCB-1260 | ND | H | 19 | 2.7 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *74* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 15:30* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 15:30* | *1* |

## Client Sample ID: 09W@2-4'

**Lab Sample ID: 180-13331-5**
**Date Collected: 08/08/12 10:05**
**Matrix: Solid**
**Date Received: 08/10/12 10:15**
**Percent Solids: 87.2**

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | H | 19 | 2.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:58 | 1 |
| PCB-1221 | ND | H | 19 | 3.6 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:58 | 1 |
| PCB-1232 | ND | H | 19 | 3.2 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:58 | 1 |
| PCB-1242 | ND | H | 19 | 3.1 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:58 | 1 |
| PCB-1248 | ND | H | 19 | 1.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:58 | 1 |
| PCB-1254 | ND | H | 19 | 2.7 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:58 | 1 |
| PCB-1260 | ND | H | 19 | 2.7 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 15:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *90* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 15:58* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 15:58* | *1* |

## Client Sample ID: 10W@2-4'

**Lab Sample ID: 180-13331-12**
**Date Collected: 08/08/12 08:30**
**Matrix: Solid**
**Date Received: 08/10/12 10:15**
**Percent Solids: 83.6**

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | H | 20 | 3.0 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:26 | 1 |
| PCB-1221 | ND | H | 20 | 3.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:26 | 1 |
| PCB-1232 | ND | H | 20 | 3.4 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:26 | 1 |
| PCB-1242 | ND | H | 20 | 3.2 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:26 | 1 |
| PCB-1248 | ND | H | 20 | 1.9 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:26 | 1 |
| PCB-1254 | ND | H | 20 | 2.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:26 | 1 |
| PCB-1260 | ND | H | 20 | 2.8 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *89* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 16:26* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *85* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 16:26* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-3

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-50560/1-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *98* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 17:23* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *98* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 17:23* | *1* |

**Lab Sample ID: LCS 180-50560/2-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1200 | | ug/Kg | | 90 | 55 - 130 | | |
| PCB-1260 | | | 1330 | 1280 | | ug/Kg | | 96 | 54 - 130 | | |

| *Surrogate* | | | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | | | *90* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | | | *109* | | *35 - 140* |

**Lab Sample ID: LCSD 180-50560/3-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1200 | | ug/Kg | | 90 | 55 - 130 | 0 | 35 |
| PCB-1260 | | | 1330 | 1220 | | ug/Kg | | 91 | 54 - 130 | 5 | 29 |

| *Surrogate* | | | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | | | *93* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | | | *101* | | *35 - 140* |

# QC Association Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13331-3

## GC Semi VOA

### Prep Batch: 50560

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 3541 | |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 3541 | |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 3541 | |
| LCS 180-50560/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 180-50560/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |
| MB 180-50560/1-A | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 50942

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13331-4 | 08W@3-5' | Total/NA | Solid | 8082 | 50560 |
| 180-13331-5 | 09W@2-4' | Total/NA | Solid | 8082 | 50560 |
| 180-13331-12 | 10W@2-4' | Total/NA | Solid | 8082 | 50560 |
| LCS 180-50560/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 50560 |
| LCSD 180-50560/3-A | Lab Control Sample Dup | Total/NA | Solid | 8082 | 50560 |
| MB 180-50560/1-A | Method Blank | Total/NA | Solid | 8082 | 50560 |

180-13331

# Chain of Custody Record

3-2, 4-7, 1-9, 28 #2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

| Client Contact | | | |
|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: |
| Address: 8525 Bell Creek Rd | Telephone: | Telephone: 804-513-8080 | Telephone: |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (In BUS days) | COC No: 2 of 2 COCs |
| Phone: 804-442-3330 | | TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | For lab use only: Walk-in Client ☐ Lab picking ☐ Lab sampling ☐ Job/SDG No. |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | |
| Project Number: 12-074 | Shipping/Tracking No: | | |
| PO# 12-074 | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C/Grab G | Analyses: Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & GOX | PCBs | Metals | TCLP - Full | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06WD | 8/8/12 | 12:30 | | X | | | | X | X | X | | | | | | | X | X | X | | | X | X | | |
| 10W@2-4' | | 8:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 10W | | 9:15 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 10WD@2-4' | | 8:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 10WD | 8/8/12 | 9:15 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| TRIP BLANK | | | | X | | | | | | X | | | | | | | | | X | | | | | | |
| 01@2-4' | 8/9/12 | 8:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Relinquished by: | Company: EEE | Date/Time: 8/9/12 10:30 | Received by: | Company: TA | Date/Time: 8/9/12 1030 |
| Relinquished by: | Company: TA | Date/Time: 8/9/12 1700 | Received by: | Company: TA PM | Date/Time: 8-10-12 10:15 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: (804) 513-8080 | Telephone: | 1 of 2 COCs |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only |
| Phone: (804) 442-3330 | | TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐ |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | | Job/SDG No.: |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite=C / Grab=G | 0-1 & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | PCBs | Metals | TCLP (Full) | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06W @ 5-7' | 8/8/12 | 12:15 | | | | X | | | | | | | | | | | X | X | | | X | X | X | X | |
| 06W | | 12:30 | | X | | | | X | X | X | | | | | | | X | X | X | | | X | X | | |
| 08W | | 2:45 | | X | | | | X | X | X | | | | | | | X | X | | | X | | | | |
| 08W @ 3-5' | | 2:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 09W @ 2-4' | | 10:05 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 09W | | 11:00 | | X | | | | X | X | X | | | | | | | X | X | | | X | | | | |
| 69W @ 2-4' | | 4:20 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 69W | | 4:35 | | X | | | | X | X | X | | | | | | | X | X | | | X | | | | |
| 70W @ 2-4' | | 3:20 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 70W | 8/8/12 | 3:50 | | X | | | | X | X | X | | | | | | | X | X | | | X | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | Company | Date/Time | | Company | Date/Time |
|---|---|---|---|---|---|
| Relinquished by: Paul W. Leeger | EEE | 8/9/12 10:30 | Received by: | TA | 8/9/12 1030 |
| Relinquished by: | TA | 8/9/12 1700 | Received by: | TA P.M. | 8-10-12 1045 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)



10/8/2012

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13331-3

**Login Number: 13331**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13351-1
Client Project/Site: Midtown Tunnel (MTT-MLK)
Revision: 1

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

*Authorized for release by:*
*9/27/2012 2:38:29 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 5
Certification Summary . . . . . 6
Sample Summary . . . . . 9
Method Summary . . . . . 10
Client Sample Results . . . . . 11
QC Sample Results . . . . . 55
QC Association . . . . . 100
Chain of Custody . . . . . 115
Receipt Checklists . . . . . 118

## Job ID: 180-13351-1

**Laboratory: TestAmerica Pittsburgh**

**Narrative**

**Job Narrative**
**180-13351-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/11/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.9º C, 2.4º C, 2.7º C, 3.1º C, 3.3º C, 4.6º C and 5.8º C.

**GC/MS VOA**
2-Hexanone exceeded the RPD limit for LCSD 180-45852/3-A.

1,2,4-Trichlorobenzene, 2-Hexanone and Acetone exceeded the RPD limit for LCSD 180-45239/7.

No other analytical or quality issues were noted.

**GC/MS Semi VOA**
No analytical or quality issues were noted.

**GC VOA GRO**
a,a,a-Trifluorotoluene failed the surrogate recovery criteria low for 41W@0'-1' (180-13351-7)

No other analytical or quality issues were noted.

**GC Semi VOA DRO**
o-Terphenyl failed the surrogate recovery criteria low for 40W@2'-4' (180-13351-11). o-Terphenyl failed the surrogate recovery criteria low for 41W@0'-1' (180-13351-7).

Sample 41W@0'-1' (180-13351-7)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other analytical or quality issues were noted.

**Metals**
***TCLP Metals:***
other Barium and Selenium were detected in method blank LB 180-44820/27-F at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Cadmium and Selenium were detected in method blank LB 180-45619/25-E at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Barium was detected in method blank MB 180-44915/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Mercury was detected in method blank LB 180-44820/27-G at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Mercury was detected in method blank LB 180-45619/25-F at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged

***Total Metals***:
Barium and Selenium were detected in method blank MB 180-45296/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

## Job ID: 180-13351-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

No other analytical or quality issues were noted.

**General Chemistry**
No analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

**VOA Prep**
No analytical or quality issues were noted.

**Narrative**

**Job Narrative**
**180-13351-2**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/11/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperatures of the 7 coolers at receipt time were 1.9º C, 2.4º C, 2.7º C, 3.1º C, 3.3º C, 4.6º C and 5.8º C.

**General Chemistry**
No analytical or quality issues were noted.

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| * | RPD of the LCS and LCSD exceeds the control limits |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| 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

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate is outside control limits |
| H | Sample was prepped or analyzed beyond the specified holding time |
| 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. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-12 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Solid | 08/09/12 10:30 | 08/11/12 09:00 |
| 180-13351-2 | 44W | Water | 08/09/12 10:30 | 08/11/12 09:00 |
| 180-13351-3 | 45W@1-3' | Solid | 08/09/12 11:30 | 08/11/12 09:00 |
| 180-13351-4 | 45W | Water | 08/09/12 11:30 | 08/11/12 09:00 |
| 180-13351-5 | 46W@2-4' | Solid | 08/09/12 12:15 | 08/11/12 09:00 |
| 180-13351-6 | 46W | Water | 08/09/12 12:30 | 08/11/12 09:00 |
| 180-13351-7 | 41W@0'-1' | Solid | 08/09/12 01:45 | 08/11/12 09:00 |
| 180-13351-8 | 41W | Water | 08/09/12 02:00 | 08/11/12 09:00 |
| 180-13351-9 | 41W@5'-7' | Solid | 08/09/12 01:45 | 08/11/12 09:00 |
| 180-13351-10 | FB | Water | 08/09/12 11:45 | 08/11/12 09:00 |
| 180-13351-11 | 40W@2'-4' | Solid | 08/09/12 03:15 | 08/11/12 09:00 |
| 180-13351-12 | 40W | Water | 08/09/12 03:30 | 08/11/12 09:00 |
| 180-13351-13 | TRIP BLANK (TB) | Water | 08/09/12 00:00 | 08/11/12 09:00 |
| 180-13351-14 | 43W@2-4' | Solid | 08/10/12 08:45 | 08/11/12 09:00 |
| 180-13351-15 | 43W | Water | 08/10/12 09:10 | 08/11/12 09:00 |
| 180-13351-16 | 43WD@2-4' | Solid | 08/10/12 08:45 | 08/11/12 09:00 |
| 180-13351-17 | 43WD | Water | 08/10/12 09:10 | 08/11/12 09:00 |
| 180-13351-18 | 39@2-4' | Solid | 08/10/12 09:30 | 08/11/12 09:00 |
| 180-13351-19 | 38@4-6' | Solid | 08/10/12 10:15 | 08/11/12 09:00 |
| 180-13351-20 | 38W | Water | 08/10/12 10:30 | 08/11/12 09:00 |
| 180-13351-21 | 67W@3-5' | Solid | 08/10/12 11:30 | 08/11/12 09:00 |
| 180-13351-22 | 67W | Water | 08/10/12 11:50 | 08/11/12 09:00 |
| 180-13351-23 | 66W@3-5' | Solid | 08/10/12 12:15 | 08/11/12 09:00 |
| 180-13351-24 | 66W | Water | 08/10/12 12:30 | 08/11/12 09:00 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds by GC/MS | SW846 | TAL PIT |
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8270C | Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | SW846 | TAL PIT |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |
| 6010B | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |
| 7471A | Mercury (CVAA) | SW846 | TAL PIT |
| 1020B | Ignitability, Small Scale Closed-Cup Method | SW846 | TAL PIT |
| 1664A | HEM and SGT-HEM | 1664A | TAL PIT |
| 9012A | Cyanide, Total and/or Amenable | SW846 | TAL PIT |
| 9020B | Organic Halides, Total (TOX) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9034 | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846 | TAL PIT |
| 9045C | pH | SW846 | TAL PIT |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 44W@2-4'**
**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-1**
**Matrix: Solid**
**Percent Solids: 84.7**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 7.4 | J | 24 | 5.9 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Benzene | ND | | 5.9 | 0.80 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Dichlorobromomethane | ND | | 5.9 | 0.66 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Bromoform | ND | | 5.9 | 0.52 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Bromomethane | ND | | 5.9 | 0.87 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 2-Butanone (MEK) | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Carbon disulfide | ND | | 5.9 | 0.60 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Carbon tetrachloride | ND | | 5.9 | 0.53 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Chlorobenzene | ND | | 5.9 | 0.89 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Chloroethane | ND | | 5.9 | 1.8 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Chloroform | ND | | 5.9 | 0.69 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Chloromethane | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Chlorodibromomethane | ND | | 5.9 | 0.84 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,1-Dichloroethane | ND | | 5.9 | 0.68 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,2-Dichloroethane | ND | | 5.9 | 0.72 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,1-Dichloroethene | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.5 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,2-Dichloropropane | ND | | 5.9 | 0.64 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.9 | 0.80 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.9 | 0.71 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Ethylbenzene | ND | | 5.9 | 0.76 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 2-Hexanone | ND | | 5.9 | 0.81 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Methylene Chloride | ND | | 5.9 | 0.79 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.9 | 0.77 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Styrene | ND | | 5.9 | 0.83 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.9 | 0.85 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Tetrachloroethene | ND | | 5.9 | 0.80 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.9 | 0.57 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.9 | 0.98 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Trichloroethene | ND | | 5.9 | 0.78 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Vinyl chloride | ND | | 5.9 | 0.55 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Xylenes, Total | ND | | 18 | 2.6 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Cyclohexane | ND | | 5.9 | 0.44 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.9 | 0.88 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Dichlorodifluoromethane | ND | | 5.9 | 0.79 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.9 | 0.83 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.9 | 0.70 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Isopropylbenzene | ND | | 5.9 | 0.80 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Methyl acetate | ND | | 5.9 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Methylcyclohexane | ND | | 5.9 | 0.86 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Methyl tert-butyl ether | ND | | 5.9 | 0.88 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Trichlorofluoromethane | ND | | 5.9 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.9 | 1.3 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.9 | 0.94 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.9 | 0.77 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.9 | 0.75 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| Toluene | ND | | 5.9 | 0.86 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| o-Xylene | ND | | 5.9 | 0.92 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.7 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:23 | 1 |

**Client Sample ID: 44W@2-4'**
**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-1**
**Matrix: Solid**
**Percent Solids: 84.7**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *74* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 11:23* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 11:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *79* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 11:23* | *1* |
| *Dibromofluoromethane (Surr)* | *85* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 11:23* | *1* |

## Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:01 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 08/17/12 17:01 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:01 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 08/17/12 17:01 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:01 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 08/17/12 17:01 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 08/17/12 17:01 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 08/17/12 17:01 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 08/17/12 17:01 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 08/17/12 17:01 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *109* | | *80 - 120* | | *08/17/12 17:01* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *78* | | *62 - 123* | | *08/17/12 17:01* | *40* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *75 - 120* | | *08/17/12 17:01* | *40* |
| *Dibromofluoromethane (Surr)* | *89* | | *80 - 120* | | *08/17/12 17:01* | *40* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/14/12 14:00 | 08/15/12 20:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *77* | | *19 - 138* | *08/14/12 14:00* | *08/15/12 20:45* | *1* |
| *2-Fluorobiphenyl* | *93* | | *35 - 115* | *08/14/12 14:00* | *08/15/12 20:45* | *1* |
| *2-Fluorophenol* | *103* | | *20 - 110* | *08/14/12 14:00* | *08/15/12 20:45* | *1* |
| *Nitrobenzene-d5* | *110* | | *39 - 115* | *08/14/12 14:00* | *08/15/12 20:45* | *1* |
| *Phenol-d5* | *107* | | *30 - 118* | *08/14/12 14:00* | *08/15/12 20:45* | *1* |
| *Terphenyl-d14* | *103* | | *30 - 143* | *08/14/12 14:00* | *08/15/12 20:45* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 78 | 7.5 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Acetophenone | ND | | 380 | 32 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Acenaphthylene | ND | | 78 | 8.9 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Anthracene | ND | | 78 | 7.6 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 44W@2-4'**
**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-1**
**Matrix: Solid**
**Percent Solids: 84.7**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzo[a]anthracene** | **47** | **J** | 78 | 9.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| **Benzo[a]pyrene** | **49** | **J** | 78 | 7.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| **Benzo[b]fluoranthene** | **66** | **J** | 78 | 12 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| **Benzo[g,h,i]perylene** | **42** | **J** | 78 | 7.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Benzo[k]fluoranthene | ND | | 78 | 16 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Bis(2-chloroethyl)ether | ND | | 78 | 10 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 380 | 26 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 78 | 8.4 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 780 | 63 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 380 | 34 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Butyl benzyl phthalate | ND | | 380 | 53 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Carbazole | ND | | 78 | 7.2 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 4-Chloroaniline | ND | | 380 | 31 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2-Chloronaphthalene | ND | | 78 | 8.1 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 380 | 43 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| **Chrysene** | **49** | **J** | 78 | 9.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Dibenz(a,h)anthracene | ND | | 78 | 8.6 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Dibenzofuran | ND | | 380 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Di-n-butyl phthalate | ND | | 380 | 49 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 380 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Diethyl phthalate | ND | | 380 | 42 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Dimethyl phthalate | ND | | 380 | 42 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2,4-Dinitrotoluene | ND | | 380 | 31 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2,6-Dinitrotoluene | ND | | 380 | 40 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Di-n-octyl phthalate | ND | | 380 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| **Fluoranthene** | **63** | **J** | 78 | 8.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Fluorene | ND | | 78 | 10 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Hexachlorobenzene | ND | | 78 | 8.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Hexachlorobutadiene | ND | | 78 | 8.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Hexachlorocyclopentadiene | ND | | 380 | 42 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Hexachloroethane | ND | | 380 | 28 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **45** | **J** | 78 | 8.0 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Isophorone | ND | | 380 | 29 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2-Methylnaphthalene | ND | | 78 | 7.0 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Naphthalene | ND | | 78 | 6.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2-Nitroaniline | ND | | 2000 | 170 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 3-Nitroaniline | ND | | 2000 | 160 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 4-Nitroaniline | ND | | 2000 | 160 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Nitrobenzene | ND | | 780 | 32 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 78 | 9.1 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| N-Nitrosodiphenylamine | ND | | 380 | 36 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| **Phenanthrene** | **15** | **J** | 78 | 12 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| **Pyrene** | **60** | **J** | 78 | 7.9 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 4-Chloro-3-methylphenol | ND | | 380 | 36 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2-Chlorophenol | ND | | 380 | 32 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2-Methylphenol | ND | | 380 | 27 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2,4-Dichlorophenol | ND | | 78 | 7.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2,4-Dimethylphenol | ND | | 380 | 61 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2,4-Dinitrophenol | ND | | 2000 | 460 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2000 | 160 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2-Nitrophenol | ND | | 380 | 43 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 44W@2-4'**
**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-1**
**Matrix: Solid**
**Percent Solids: 84.7**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Nitrophenol | ND | | 2000 | 140 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Pentachlorophenol | ND | | 380 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Phenol | ND | | 78 | 9.2 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2,4,5-Trichlorophenol | ND | | 380 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 2,4,6-Trichlorophenol | ND | | 380 | 58 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| 1,1'-Biphenyl | ND | | 380 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Caprolactam | ND | | 2000 | 290 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Benzaldehyde | ND | | 380 | 58 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Atrazine | ND | | 380 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |
| Methylphenol, 3 & 4 | ND | | 380 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 18:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *76* | | *25 - 104* | *08/23/12 03:00* | *08/24/12 18:28* | *1* |
| *2-Fluorobiphenyl* | *72* | | *35 - 105* | *08/23/12 03:00* | *08/24/12 18:28* | *1* |
| *Terphenyl-d14* | *77* | | *25 - 127* | *08/23/12 03:00* | *08/24/12 18:28* | *1* |
| *Phenol-d5* | *74* | | *25 - 105* | *08/23/12 03:00* | *08/24/12 18:28* | *1* |
| *2-Fluorophenol* | *76* | | *39 - 103* | *08/23/12 03:00* | *08/24/12 18:28* | *1* |
| *2,4,6-Tribromophenol* | *91* | | *35 - 124* | *08/23/12 03:00* | *08/24/12 18:28* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.30 | 0.022 | mg/Kg | ☼ | | 08/22/12 00:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *108* | | *70 - 131* | | *08/22/12 00:37* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **10** | | 3.9 | 2.5 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 17:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *66* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 17:35* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 20 | 2.9 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:19 | 1 |
| PCB-1221 | ND | | 20 | 3.7 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:19 | 1 |
| PCB-1232 | ND | | 20 | 3.3 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:19 | 1 |
| PCB-1242 | ND | | 20 | 3.2 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:19 | 1 |
| PCB-1248 | ND | | 20 | 1.8 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:19 | 1 |
| PCB-1254 | ND | | 20 | 2.8 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:19 | 1 |
| PCB-1260 | ND | | 20 | 2.8 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *68* | | *35 - 140* | *08/23/12 05:03* | *08/28/12 00:19* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *76* | | *35 - 140* | *08/23/12 05:03* | *08/28/12 00:19* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.0** | | 1.1 | 0.26 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:47 | 1 |
| **Barium** | **47** | **B** | 23 | 0.057 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:47 | 1 |
| **Cadmium** | **0.88** | | 0.57 | 0.027 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:47 | 1 |

## Client Sample ID: 44W@2-4'

**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-1**
**Matrix: Solid**
**Percent Solids: 84.7**

### Method: 6010B - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | 10 | | 0.57 | 0.097 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:47 | 1 |
| Lead | 67 | | 0.34 | 0.17 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:47 | 1 |
| Selenium | 0.64 | B | 0.57 | 0.24 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:47 | 1 |
| Silver | ND | | 0.57 | 0.066 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:47 | 1 |

### Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0059 | J | 0.050 | 0.0027 | mg/L | | 08/15/12 09:47 | 08/16/12 14:41 | 1 |
| Barium | 0.27 | B | 0.20 | 0.00062 | mg/L | | 08/15/12 09:47 | 08/16/12 14:41 | 1 |
| Cadmium | 0.00041 | J | 0.050 | 0.00013 | mg/L | | 08/15/12 09:47 | 08/16/12 14:41 | 1 |
| Chromium | 0.0017 | J | 0.050 | 0.00057 | mg/L | | 08/15/12 09:47 | 08/16/12 14:41 | 1 |
| Lead | 0.016 | J | 0.050 | 0.0013 | mg/L | | 08/15/12 09:47 | 08/16/12 14:41 | 1 |
| Selenium | 0.0057 | J B | 0.050 | 0.0030 | mg/L | | 08/15/12 09:47 | 08/16/12 14:41 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/15/12 09:47 | 08/16/12 14:41 | 1 |

### Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/16/12 10:01 | 08/16/12 15:28 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.082 | | 0.040 | 0.013 | mg/Kg | ☼ | 08/29/12 06:52 | 08/29/12 13:29 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.57 | 0.11 | mg/Kg | ☼ | 08/21/12 10:10 | 08/21/12 12:51 | 1 |
| Sulfide | ND | | 35 | 7.1 | mg/Kg | ☼ | 08/15/12 13:45 | 08/15/12 17:00 | 1 |
| HEM | 140 | J | 200 | 27 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | >140 | | | | Degrees F | | | 08/23/12 14:54 | 1 |
| Flashpoint | >140 | | | | Degrees F | | | 08/23/12 14:54 | 1 |
| pH | 5.67 | | 0.100 | 0.100 | SU | | | 08/16/12 13:00 | 1 |
| Percent Moisture | 15 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| Percent Solids | 85 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 44W

**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-2**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | * | 20 | 5.0 | ug/L | | | 08/16/12 16:48 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 16:48 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 16:48 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 16:48 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 16:48 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 16:48 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 16:48 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 16:48 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 16:48 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 16:48 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 16:48 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 44W**
**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-2**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 16:48 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 16:48 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 16:48 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 16:48 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/16/12 16:48 | 1 |
| 2-Hexanone | ND | * | 5.0 | 0.57 | ug/L | | | 08/16/12 16:48 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 16:48 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 16:48 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 16:48 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 16:48 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 16:48 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 16:48 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/16/12 16:48 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 16:48 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 16:48 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 16:48 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 16:48 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 16:48 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 16:48 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 16:48 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 16:48 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 16:48 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/16/12 16:48 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/16/12 16:48 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 16:48 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/16/12 16:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *69* | | *62 - 123* | | *08/16/12 16:48* | *1* |
| *Toluene-d8 (Surr)* | *115* | | *80 - 120* | | *08/16/12 16:48* | *1* |
| *4-Bromofluorobenzene (Surr)* | *81* | | *75 - 120* | | *08/16/12 16:48* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* | | *08/16/12 16:48* | *1* |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **19** | | 1.9 | 0.14 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Acetophenone | ND | | 9.7 | 0.78 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 44W**
**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-2**
**Matrix: Water**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| **Anthracene** | **0.26** | **J** | 1.9 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.7 | 0.56 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.7 | 0.62 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Butyl benzyl phthalate | ND | | 9.7 | 1.4 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 4-Chloroaniline | ND | | 9.7 | 0.86 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.7 | 0.49 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Chrysene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Dibenzofuran | ND | | 9.7 | 0.60 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Di-n-butyl phthalate | ND | | 9.7 | 1.2 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.7 | 1.1 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Diethyl phthalate | ND | | 9.7 | 1.4 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Dimethyl phthalate | ND | | 9.7 | 0.74 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.7 | 0.52 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.7 | 0.77 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Di-n-octyl phthalate | ND | | 9.7 | 2.0 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| **Fluoranthene** | **0.30** | **J** | 1.9 | 0.16 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| **Fluorene** | **0.29** | **J** | 1.9 | 0.21 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.7 | 0.50 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Hexachloroethane | ND | | 9.7 | 0.61 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Isophorone | ND | | 9.7 | 0.63 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Naphthalene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2-Nitroaniline | ND | | 49 | 3.4 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 3-Nitroaniline | ND | | 49 | 3.1 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 4-Nitroaniline | ND | | 49 | 1.7 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Nitrobenzene | ND | | 19 | 0.82 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.7 | 0.83 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.7 | 0.73 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2-Chlorophenol | ND | | 9.7 | 1.6 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2-Methylphenol | ND | | 9.7 | 0.84 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2,4-Dimethylphenol | ND | | 9.7 | 0.83 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2,4-Dinitrophenol | ND | | 49 | 6.0 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |

**Client Sample ID: 44W**
**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-2**
**Matrix: Water**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | | 49 | 2.1 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2-Nitrophenol | ND | | 9.7 | 1.7 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 4-Nitrophenol | ND | | 49 | 6.3 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Pentachlorophenol | ND | | 9.7 | 0.64 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.7 | 1.5 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.7 | 1.7 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| 1,1'-Biphenyl | ND | | 9.7 | 0.40 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Caprolactam | ND | | 49 | 12 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Benzaldehyde | ND | | 9.7 | 1.5 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Atrazine | ND | | 9.7 | 0.87 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.7 | 0.88 | ug/L | | 08/16/12 08:52 | 08/17/12 23:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *63* | | *37 - 104* | *08/16/12 08:52* | *08/17/12 23:49* | *1* |
| *2-Fluorobiphenyl* | *58* | | *35 - 108* | *08/16/12 08:52* | *08/17/12 23:49* | *1* |
| *Terphenyl-d14* | *71* | | *25 - 130* | *08/16/12 08:52* | *08/17/12 23:49* | *1* |
| *Phenol-d5* | *56* | | *30 - 102* | *08/16/12 08:52* | *08/17/12 23:49* | *1* |
| *2-Fluorophenol* | *60* | | *26 - 100* | *08/16/12 08:52* | *08/17/12 23:49* | *1* |
| *2,4,6-Tribromophenol* | *64* | | *33 - 122* | *08/16/12 08:52* | *08/17/12 23:49* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 18:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/20/12 18:52* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **1.2** | | 0.098 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 14:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *75* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 14:00* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 08/14/12 13:40 | 08/20/12 18:37 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 08/14/12 13:40 | 08/20/12 18:37 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 08/14/12 13:40 | 08/20/12 18:37 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 08/14/12 13:40 | 08/20/12 18:37 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 08/14/12 13:40 | 08/20/12 18:37 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 08/14/12 13:40 | 08/20/12 18:37 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 08/14/12 13:40 | 08/20/12 18:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *80* | | *35 - 140* | *08/14/12 13:40* | *08/20/12 18:37* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *87* | | *35 - 140* | *08/14/12 13:40* | *08/20/12 18:37* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **38** | | 10 | 2.7 | ug/L | | 08/14/12 09:38 | 08/15/12 11:23 | 1 |

## Client Sample ID: 44W

**Date Collected: 08/09/12 10:30**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-2

**Matrix: Water**

### Method: 6010B - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Barium** | **150** | **J B** | 200 | 0.62 | ug/L | | 08/14/12 09:38 | 08/15/12 11:23 | 1 |
| **Cadmium** | **1.8** | **J** | 5.0 | 0.13 | ug/L | | 08/14/12 09:38 | 08/15/12 11:23 | 1 |
| **Chromium** | **1.1** | **J** | 5.0 | 0.57 | ug/L | | 08/14/12 09:38 | 08/15/12 11:23 | 1 |
| Lead | ND | | 15 | 6.3 | ug/L | | 08/14/12 09:38 | 08/15/12 13:15 | 5 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/14/12 09:38 | 08/15/12 11:23 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/14/12 09:38 | 08/15/12 11:23 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/30/12 07:14 | 08/30/12 13:04 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.2** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **TPH** | **1.6** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |

## Client Sample ID: 45W@1-3'

**Date Collected: 08/09/12 11:30**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-3

**Matrix: Solid**
**Percent Solids: 88.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.6 | 0.76 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:45 | 1 |
| Toluene | ND | | 5.6 | 0.82 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:45 | 1 |
| Ethylbenzene | ND | | 5.6 | 0.72 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:45 | 1 |
| Xylenes, Total | ND | | 17 | 2.5 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 11:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *78* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 11:45* | *1* |
| *Toluene-d8 (Surr)* | *104* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 11:45* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 11:45* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 11:45* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 1.3 | 0.096 | mg/Kg | ☼ | | 08/22/12 18:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *87* | | *70 - 131* | | *08/22/12 18:06* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **10** | | 3.7 | 2.3 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 17:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *73* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 17:49* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.9 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **130** | **J** | 190 | 26 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

## Client Sample ID: 45W@1-3'

**Lab Sample ID: 180-13351-3**

**Date Collected: 08/09/12 11:30**

**Matrix: Solid**

**Date Received: 08/11/12 09:00**

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 11 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| Percent Solids | 89 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 45W

**Lab Sample ID: 180-13351-4**

**Date Collected: 08/09/12 11:30**

**Matrix: Water**

**Date Received: 08/11/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/16/12 18:31 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/16/12 18:31 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/16/12 18:31 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/16/12 18:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *130* | | *64 - 135* | | *08/16/12 18:31* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *71 - 118* | | *08/16/12 18:31* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 118* | | *08/16/12 18:31* | *1* |
| *Dibromofluoromethane (Surr)* | *115* | | *70 - 128* | | *08/16/12 18:31* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 19:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 130* | | *08/20/12 19:17* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.38 | | 0.098 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 14:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *70* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 14:14* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 1.9 | J | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| TPH | 1.9 | J | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| Halogens, Total Organic | 0.019 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| TOX Result 1 | 0.018 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| TOX Result 2 | 0.020 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

## Client Sample ID: 46W@2-4'

**Lab Sample ID: 180-13351-5**

**Date Collected: 08/09/12 12:15**

**Matrix: Solid**

**Date Received: 08/11/12 09:00**

**Percent Solids: 87.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.7 | 0.77 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 15:21 | 1 |
| Toluene | ND | | 5.7 | 0.83 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 15:21 | 1 |
| Ethylbenzene | ND | | 5.7 | 0.73 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 15:21 | 1 |
| Xylenes, Total | ND | | 17 | 2.6 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 15:21 | 1 |

## Client Sample ID: 46W@2-4'

**Date Collected: 08/09/12 12:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-5**
**Matrix: Solid**
**Percent Solids: 87.6**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 52 - 124 | 08/20/12 03:07 | 08/20/12 15:21 | 1 |
| Toluene-d8 (Surr) | 98 | | 72 - 127 | 08/20/12 03:07 | 08/20/12 15:21 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 63 - 120 | 08/20/12 03:07 | 08/20/12 15:21 | 1 |
| Dibromofluoromethane (Surr) | 90 | | 68 - 121 | 08/20/12 03:07 | 08/20/12 15:21 | 1 |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/22/12 00:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene | 114 | | 70 - 131 | | 08/22/12 00:56 | 1 |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 55 | | 3.8 | 2.4 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 18:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 63 | | 56 - 135 | 08/16/12 14:46 | 08/27/12 18:03 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 8.0 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| HEM | 87 | J | 190 | 26 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 12 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| Percent Solids | 88 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 46W

**Date Collected: 08/09/12 12:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-6**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/16/12 18:55 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/16/12 18:55 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/16/12 18:55 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/16/12 18:55 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 125 | | 64 - 135 | | 08/16/12 18:55 | 1 |
| Toluene-d8 (Surr) | 109 | | 71 - 118 | | 08/16/12 18:55 | 1 |
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 118 | | 08/16/12 18:55 | 1 |
| Dibromofluoromethane (Surr) | 117 | | 70 - 128 | | 08/16/12 18:55 | 1 |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 19:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene | 97 | | 70 - 130 | | 08/20/12 19:43 | 1 |

## Client Sample ID: 46W

**Date Collected: 08/09/12 12:30**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-6

**Matrix: Water**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.84** | | 0.099 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 14:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *86* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 14:27* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 6.7 | 2.0 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| TPH | ND | | 6.7 | 2.0 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **Halogens, Total Organic** | **0.029** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 1** | **0.032** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 2** | **0.027** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

## Client Sample ID: 41W@0'-1'

**Date Collected: 08/09/12 01:45**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-7

**Matrix: Solid**
**Percent Solids: 95.7**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.2 | 0.71 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 09:12 | 1 |
| **Toluene** | **6.9** | | 5.2 | 0.76 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 09:12 | 1 |
| **Ethylbenzene** | **11** | | 5.2 | 0.67 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 09:12 | 1 |
| **Xylenes, Total** | **93** | | 16 | 2.3 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 09:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *78* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 09:12* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 09:12* | *1* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 09:12* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 09:12* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.91** | | 0.26 | 0.020 | mg/Kg | ☼ | | 08/22/12 16:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *0* | | *70 - 131* | | *08/22/12 16:48* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2900** | | 69 | 44 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 18:17 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *56 - 135* | *08/16/12 14:46* | *08/27/12 18:17* | *20* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.3 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **12000** | | 170 | 24 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **4.3** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| **Percent Solids** | **96** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 41W**
**Date Collected: 08/09/12 02:00**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-8**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | * | 20 | 5.0 | ug/L | | | 08/16/12 17:13 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 17:13 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 17:13 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:13 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 17:13 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:13 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:13 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:13 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 17:13 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 17:13 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 17:13 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 17:13 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 17:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 17:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 17:13 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/16/12 17:13 | 1 |
| 2-Hexanone | ND | * | 5.0 | 0.57 | ug/L | | | 08/16/12 17:13 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:13 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 17:13 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 17:13 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 17:13 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 17:13 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 17:13 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/16/12 17:13 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 17:13 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 17:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 17:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 17:13 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 17:13 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 17:13 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 17:13 | 1 |
| **Methyl tert-butyl ether** | **17** | | 5.0 | 1.0 | ug/L | | | 08/16/12 17:13 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 17:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/16/12 17:13 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/16/12 17:13 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 17:13 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/16/12 17:13 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 41W**
**Date Collected: 08/09/12 02:00**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-8**
**Matrix: Water**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *70* | | *62 - 123* | | *08/16/12 17:13* | *1* |
| *Toluene-d8 (Surr)* | *115* | | *80 - 120* | | *08/16/12 17:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *80* | | *75 - 120* | | *08/16/12 17:13* | *1* |
| *Dibromofluoromethane (Surr)* | *86* | | *80 - 120* | | *08/16/12 17:13* | *1* |

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Acetophenone | ND | | 9.5 | 0.76 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.52 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.5 | 0.55 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.5 | 0.60 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Butyl benzyl phthalate | ND | | 9.5 | 1.4 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 4-Chloroaniline | ND | | 9.5 | 0.84 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.5 | 0.48 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Dibenzofuran | ND | | 9.5 | 0.59 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Di-n-butyl phthalate | ND | | 9.5 | 1.2 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.5 | 1.1 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Diethyl phthalate | ND | | 9.5 | 1.4 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Dimethyl phthalate | ND | | 9.5 | 0.73 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.5 | 0.51 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.5 | 0.76 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Di-n-octyl phthalate | ND | | 9.5 | 2.0 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.17 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.5 | 0.49 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Hexachloroethane | ND | | 9.5 | 0.60 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Isophorone | ND | | 9.5 | 0.61 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.3 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.6 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Nitrobenzene | ND | | 19 | 0.80 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.29 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.5 | 0.81 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 41W**
**Date Collected: 08/09/12 02:00**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-8**
**Matrix: Water**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.5 | 0.72 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2-Chlorophenol | ND | | 9.5 | 1.6 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2-Methylphenol | ND | | 9.5 | 0.82 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2,4-Dimethylphenol | ND | | 9.5 | 0.81 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.8 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2-Nitrophenol | ND | | 9.5 | 1.6 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Pentachlorophenol | ND | | 9.5 | 0.63 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Phenol | ND | | 1.9 | 0.55 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.5 | 1.5 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.5 | 1.7 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| 1,1'-Biphenyl | ND | | 9.5 | 0.40 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Benzaldehyde | ND | | 9.5 | 1.4 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Atrazine | ND | | 9.5 | 0.85 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.5 | 0.86 | ug/L | | 08/16/12 08:55 | 08/17/12 23:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *68* | | *37 - 104* | *08/16/12 08:55* | *08/17/12 23:29* | *1* |
| *2-Fluorobiphenyl* | *62* | | *35 - 108* | *08/16/12 08:55* | *08/17/12 23:29* | *1* |
| *Terphenyl-d14* | *64* | | *25 - 130* | *08/16/12 08:55* | *08/17/12 23:29* | *1* |
| *Phenol-d5* | *64* | | *30 - 102* | *08/16/12 08:55* | *08/17/12 23:29* | *1* |
| *2-Fluorophenol* | *67* | | *26 - 100* | *08/16/12 08:55* | *08/17/12 23:29* | *1* |
| *2,4,6-Tribromophenol* | *73* | | *33 - 122* | *08/16/12 08:55* | *08/17/12 23:29* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 20:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/20/12 20:08* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **1.9** | | 0.097 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 14:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *94* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 14:41* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 08/14/12 13:40 | 08/20/12 19:05 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 08/14/12 13:40 | 08/20/12 19:05 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 08/14/12 13:40 | 08/20/12 19:05 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 08/14/12 13:40 | 08/20/12 19:05 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 08/14/12 13:40 | 08/20/12 19:05 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 08/14/12 13:40 | 08/20/12 19:05 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 08/14/12 13:40 | 08/20/12 19:05 | 1 |

## Client Sample ID: 41W

**Lab Sample ID: 180-13351-8**

**Date Collected: 08/09/12 02:00**

**Matrix: Water**

**Date Received: 08/11/12 09:00**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *80* | | *35 - 140* | *08/14/12 13:40* | *08/20/12 19:05* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *35 - 140* | *08/14/12 13:40* | *08/20/12 19:05* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **11** | | 10 | 2.7 | ug/L | | 08/14/12 09:38 | 08/15/12 11:45 | 1 |
| **Barium** | **110** | **J B** | 200 | 0.62 | ug/L | | 08/14/12 09:38 | 08/15/12 11:45 | 1 |
| **Cadmium** | **0.94** | **J** | 5.0 | 0.13 | ug/L | | 08/14/12 09:38 | 08/15/12 11:45 | 1 |
| **Chromium** | **14** | | 5.0 | 0.57 | ug/L | | 08/14/12 09:38 | 08/15/12 11:45 | 1 |
| **Lead** | **2.7** | **J** | 3.0 | 1.3 | ug/L | | 08/14/12 09:38 | 08/15/12 11:45 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/14/12 09:38 | 08/15/12 11:45 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/14/12 09:38 | 08/15/12 11:45 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/30/12 07:14 | 08/30/12 13:07 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.7** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **TPH** | **2.3** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |

## Client Sample ID: 41W@5'-7'

**Lab Sample ID: 180-13351-9**

**Date Collected: 08/09/12 01:45**

**Matrix: Solid**

**Date Received: 08/11/12 09:00**

**Percent Solids: 79.1**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 25 | 6.3 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Benzene | ND | | 6.3 | 0.85 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Dichlorobromomethane | ND | | 6.3 | 0.71 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Bromoform | ND | | 6.3 | 0.56 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Bromomethane | ND | | 6.3 | 0.93 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 2-Butanone (MEK) | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Carbon disulfide | ND | | 6.3 | 0.65 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Carbon tetrachloride | ND | | 6.3 | 0.56 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Chlorobenzene | ND | | 6.3 | 0.96 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Chloroethane | ND | | 6.3 | 2.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Chloroform | ND | | 6.3 | 0.74 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Chloromethane | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Chlorodibromomethane | ND | | 6.3 | 0.90 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,1-Dichloroethane | ND | | 6.3 | 0.73 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,2-Dichloroethane | ND | | 6.3 | 0.77 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,1-Dichloroethene | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,2-Dichloroethene, Total | ND | | 13 | 1.6 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,2-Dichloropropane | ND | | 6.3 | 0.69 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| cis-1,3-Dichloropropene | ND | | 6.3 | 0.86 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| trans-1,3-Dichloropropene | ND | | 6.3 | 0.76 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Ethylbenzene | ND | | 6.3 | 0.81 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 2-Hexanone | ND | | 6.3 | 0.87 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Methylene Chloride | ND | | 6.3 | 0.85 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 6.3 | 0.82 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 41W@5'-7'**
**Date Collected: 08/09/12 01:45**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-9**
**Matrix: Solid**
**Percent Solids: 79.1**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Styrene | ND | | 6.3 | 0.89 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.3 | 0.91 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Tetrachloroethene | ND | | 6.3 | 0.86 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,1,1-Trichloroethane | ND | | 6.3 | 0.61 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,1,2-Trichloroethane | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Trichloroethene | ND | | 6.3 | 0.83 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Vinyl chloride | ND | | 6.3 | 0.59 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Xylenes, Total | ND | | 19 | 2.8 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Cyclohexane | ND | | 6.3 | 0.47 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.3 | 0.95 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Dichlorodifluoromethane | ND | | 6.3 | 0.84 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| cis-1,2-Dichloroethene | ND | | 6.3 | 0.89 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| trans-1,2-Dichloroethene | ND | | 6.3 | 0.75 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Isopropylbenzene | ND | | 6.3 | 0.86 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Methyl acetate | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Methylcyclohexane | ND | | 6.3 | 0.92 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Methyl tert-butyl ether | ND | | 6.3 | 0.94 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Trichlorofluoromethane | ND | | 6.3 | 1.2 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.3 | 1.3 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,2-Dichlorobenzene | ND | | 6.3 | 1.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,3-Dichlorobenzene | ND | | 6.3 | 0.83 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,4-Dichlorobenzene | ND | | 6.3 | 0.80 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| Toluene | ND | | 6.3 | 0.92 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| o-Xylene | ND | | 6.3 | 0.98 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |
| m-Xylene & p-Xylene | ND | | 13 | 1.9 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 12:09* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 12:09* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 12:09* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 12:09* | *1* |

## Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:25 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 08/17/12 17:25 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:25 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 08/17/12 17:25 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:25 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 08/17/12 17:25 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 08/17/12 17:25 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 08/17/12 17:25 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 08/17/12 17:25 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 08/17/12 17:25 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *08/17/12 17:25* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *74* | | *62 - 123* | | *08/17/12 17:25* | *40* |
| *4-Bromofluorobenzene (Surr)* | *79* | | *75 - 120* | | *08/17/12 17:25* | *40* |
| *Dibromofluoromethane (Surr)* | *87* | | *80 - 120* | | *08/17/12 17:25* | *40* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 41W@5'-7'**
**Date Collected: 08/09/12 01:45**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-9**
**Matrix: Solid**

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/14/12 14:00 | 08/15/12 21:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *65* | | *19 - 138* | *08/14/12 14:00* | *08/15/12 21:05* | *1* |
| *2-Fluorobiphenyl* | *79* | | *35 - 115* | *08/14/12 14:00* | *08/15/12 21:05* | *1* |
| *2-Fluorophenol* | *91* | | *20 - 110* | *08/14/12 14:00* | *08/15/12 21:05* | *1* |
| *Nitrobenzene-d5* | *96* | | *39 - 115* | *08/14/12 14:00* | *08/15/12 21:05* | *1* |
| *Phenol-d5* | *93* | | *30 - 118* | *08/14/12 14:00* | *08/15/12 21:05* | *1* |
| *Terphenyl-d14* | *96* | | *30 - 143* | *08/14/12 14:00* | *08/15/12 21:05* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 85 | 8.1 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Acetophenone | ND | | 420 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Acenaphthylene | ND | | 85 | 9.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Anthracene | ND | | 85 | 8.2 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Benzo[a]anthracene | ND | | 85 | 11 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Benzo[a]pyrene | ND | | 85 | 8.4 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Benzo[b]fluoranthene | ND | | 85 | 13 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Benzo[g,h,i]perylene | ND | | 85 | 8.4 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Benzo[k]fluoranthene | ND | | 85 | 17 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Bis(2-chloroethyl)ether | ND | | 85 | 11 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 420 | 28 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 85 | 9.1 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 850 | 68 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 420 | 37 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Butyl benzyl phthalate | ND | | 420 | 58 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Carbazole | ND | | 85 | 7.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 4-Chloroaniline | ND | | 420 | 34 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2-Chloronaphthalene | ND | | 85 | 8.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 420 | 47 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Chrysene | ND | | 85 | 10 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Dibenz(a,h)anthracene | ND | | 85 | 9.4 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Dibenzofuran | ND | | 420 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Di-n-butyl phthalate | ND | | 420 | 53 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 420 | 45 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Diethyl phthalate | ND | | 420 | 46 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Dimethyl phthalate | ND | | 420 | 46 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2,4-Dinitrotoluene | ND | | 420 | 34 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2,6-Dinitrotoluene | ND | | 420 | 43 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |

**Client Sample ID: 41W@5'-7'**
**Date Collected: 08/09/12 01:45**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-9**
**Matrix: Solid**
**Percent Solids: 79.1**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | ND | | 420 | 44 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Fluoranthene | ND | | 85 | 9.0 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Fluorene | ND | | 85 | 11 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Hexachlorobenzene | ND | | 85 | 9.0 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Hexachlorobutadiene | ND | | 85 | 9.4 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Hexachlorocyclopentadiene | ND | | 420 | 45 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Hexachloroethane | ND | | 420 | 30 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 85 | 8.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Isophorone | ND | | 420 | 32 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| **2-Methylnaphthalene** | **12** | **J** | 85 | 7.6 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Naphthalene | ND | | 85 | 7.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2-Nitroaniline | ND | | 2100 | 190 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 3-Nitroaniline | ND | | 2100 | 170 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 4-Nitroaniline | ND | | 2100 | 170 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Nitrobenzene | ND | | 850 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 85 | 9.9 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| N-Nitrosodiphenylamine | ND | | 420 | 39 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Phenanthrene | ND | | 85 | 13 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Pyrene | ND | | 85 | 8.5 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 4-Chloro-3-methylphenol | ND | | 420 | 39 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2-Chlorophenol | ND | | 420 | 34 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2-Methylphenol | ND | | 420 | 29 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2,4-Dichlorophenol | ND | | 85 | 8.5 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2,4-Dimethylphenol | ND | | 420 | 66 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2,4-Dinitrophenol | ND | | 2100 | 500 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2100 | 170 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2-Nitrophenol | ND | | 420 | 46 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 4-Nitrophenol | ND | | 2100 | 150 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Pentachlorophenol | ND | | 420 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Phenol | ND | | 85 | 10 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2,4,5-Trichlorophenol | ND | | 420 | 45 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 2,4,6-Trichlorophenol | ND | | 420 | 63 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| 1,1'-Biphenyl | ND | | 420 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Caprolactam | ND | | 2100 | 320 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Benzaldehyde | ND | | 420 | 63 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Atrazine | ND | | 420 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |
| Methylphenol, 3 & 4 | ND | | 420 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *79* | | *25 - 104* | *08/23/12 03:00* | *08/24/12 19:32* | *1* |
| *2-Fluorobiphenyl* | *74* | | *35 - 105* | *08/23/12 03:00* | *08/24/12 19:32* | *1* |
| *Terphenyl-d14* | *73* | | *25 - 127* | *08/23/12 03:00* | *08/24/12 19:32* | *1* |
| *Phenol-d5* | *78* | | *25 - 105* | *08/23/12 03:00* | *08/24/12 19:32* | *1* |
| *2-Fluorophenol* | *81* | | *39 - 103* | *08/23/12 03:00* | *08/24/12 19:32* | *1* |
| *2,4,6-Tribromophenol* | *90* | | *35 - 124* | *08/23/12 03:00* | *08/24/12 19:32* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.35** | | 0.32 | 0.024 | mg/Kg | ☼ | | 08/22/12 19:05 | 1 |

**Client Sample ID: 41W@5'-7'**
**Date Collected: 08/09/12 01:45**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-9**
**Matrix: Solid**
**Percent Solids: 79.1**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| a,a,a-Trifluorotoluene | 77 | | 70 - 131 | | 08/22/12 19:05 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 4.0 | J | 4.2 | 2.6 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 18:30 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 80 | | 56 - 135 | 08/16/12 14:46 | 08/27/12 18:30 | 1 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 21 | 3.1 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:47 | 1 |
| PCB-1221 | ND | | 21 | 4.0 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:47 | 1 |
| PCB-1232 | ND | | 21 | 3.6 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:47 | 1 |
| PCB-1242 | ND | | 21 | 3.4 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:47 | 1 |
| PCB-1248 | ND | | 21 | 2.0 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:47 | 1 |
| PCB-1254 | ND | | 21 | 3.0 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:47 | 1 |
| PCB-1260 | ND | | 21 | 3.0 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 00:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 69 | | 35 - 140 | 08/23/12 05:03 | 08/28/12 00:47 | 1 |
| DCB Decachlorobiphenyl (Surr) | 80 | | 35 - 140 | 08/23/12 05:03 | 08/28/12 00:47 | 1 |

## Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1.3 | | 1.2 | 0.27 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:53 | 1 |
| Barium | 22 | J B | 24 | 0.060 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:53 | 1 |
| Cadmium | 0.036 | J | 0.60 | 0.029 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:53 | 1 |
| Chromium | 12 | | 0.60 | 0.10 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:53 | 1 |
| Lead | 15 | | 0.36 | 0.17 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:53 | 1 |
| Selenium | 0.30 | J B | 0.60 | 0.25 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:53 | 1 |
| Silver | ND | | 0.60 | 0.069 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:53 | 1 |

## Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0072 | J | 0.050 | 0.0027 | mg/L | | 08/15/12 09:47 | 08/16/12 14:47 | 1 |
| Barium | 0.11 | J B | 0.20 | 0.00062 | mg/L | | 08/15/12 09:47 | 08/16/12 14:47 | 1 |
| Cadmium | 0.00020 | J | 0.050 | 0.00013 | mg/L | | 08/15/12 09:47 | 08/16/12 14:47 | 1 |
| Chromium | 0.0025 | J | 0.050 | 0.00057 | mg/L | | 08/15/12 09:47 | 08/16/12 14:47 | 1 |
| Lead | 0.0065 | J | 0.050 | 0.0013 | mg/L | | 08/15/12 09:47 | 08/16/12 14:47 | 1 |
| Selenium | 0.0052 | J B | 0.050 | 0.0030 | mg/L | | 08/15/12 09:47 | 08/16/12 14:47 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/15/12 09:47 | 08/16/12 14:47 | 1 |

## Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/16/12 10:01 | 08/16/12 15:30 | 1 |

## Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.039 | 0.013 | mg/Kg | ☼ | 08/29/12 06:52 | 08/29/12 13:30 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.63 | 0.12 | mg/Kg | ☼ | 08/21/12 10:10 | 08/21/12 12:51 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 41W@5'-7'**
**Date Collected: 08/09/12 01:45**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-9**
**Matrix: Solid**
**Percent Solids: 79.1**

### General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide | ND | | 38 | 7.6 | mg/Kg | ☼ | 08/15/12 13:45 | 08/15/12 17:00 | 1 |
| HEM | 130 | J | 210 | 29 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | >140 | | | | Degrees F | | | 08/23/12 14:56 | 1 |
| Flashpoint | >140 | | | | Degrees F | | | 08/23/12 14:56 | 1 |
| pH | 6.12 | | 0.100 | 0.100 | SU | | | 08/16/12 13:03 | 1 |
| Percent Moisture | 21 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| Percent Solids | 79 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

**Client Sample ID: FB**
**Date Collected: 08/09/12 11:45**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-10**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | * | 20 | 5.0 | ug/L | | | 08/16/12 17:37 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 17:37 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 17:37 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:37 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 17:37 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:37 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:37 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:37 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 17:37 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 17:37 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 17:37 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 17:37 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 17:37 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 17:37 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 17:37 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/16/12 17:37 | 1 |
| 2-Hexanone | ND | * | 5.0 | 0.57 | ug/L | | | 08/16/12 17:37 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:37 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 17:37 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 17:37 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 17:37 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 17:37 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 17:37 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/16/12 17:37 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 17:37 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 17:37 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

## Client Sample ID: FB

**Lab Sample ID: 180-13351-10**

**Date Collected: 08/09/12 11:45**

**Matrix: Water**

**Date Received: 08/11/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 17:37 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 17:37 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 17:37 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 17:37 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 17:37 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 17:37 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 17:37 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/16/12 17:37 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/16/12 17:37 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 17:37 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/16/12 17:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *69* | | *62 - 123* | | *08/16/12 17:37* | *1* |
| *Toluene-d8 (Surr)* | *117* | | *80 - 120* | | *08/16/12 17:37* | *1* |
| *4-Bromofluorobenzene (Surr)* | *77* | | *75 - 120* | | *08/16/12 17:37* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *80 - 120* | | *08/16/12 17:37* | *1* |

## Client Sample ID: 40W@2'-4'

**Lab Sample ID: 180-13351-11**

**Date Collected: 08/09/12 03:15**

**Matrix: Solid**

**Date Received: 08/11/12 09:00**

**Percent Solids: 85.0**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 24 | 5.9 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Benzene | ND | | 5.9 | 0.79 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Dichlorobromomethane | ND | | 5.9 | 0.66 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Bromoform | ND | | 5.9 | 0.52 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Bromomethane | ND | | 5.9 | 0.87 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 2-Butanone (MEK) | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Carbon disulfide | ND | | 5.9 | 0.60 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Carbon tetrachloride | ND | | 5.9 | 0.53 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Chlorobenzene | ND | | 5.9 | 0.89 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Chloroethane | ND | | 5.9 | 1.8 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Chloroform | ND | | 5.9 | 0.69 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Chloromethane | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Chlorodibromomethane | ND | | 5.9 | 0.84 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,1-Dichloroethane | ND | | 5.9 | 0.68 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,2-Dichloroethane | ND | | 5.9 | 0.72 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,1-Dichloroethene | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.5 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,2-Dichloropropane | ND | | 5.9 | 0.64 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.9 | 0.80 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.9 | 0.70 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Ethylbenzene | ND | | 5.9 | 0.76 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 2-Hexanone | ND | * | 5.9 | 0.81 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Methylene Chloride | ND | | 5.9 | 0.79 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 40W@2'-4'**
**Date Collected: 08/09/12 03:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-11**
**Matrix: Solid**
**Percent Solids: 85.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.9 | 0.77 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Styrene | ND | | 5.9 | 0.83 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.9 | 0.85 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Tetrachloroethene | ND | | 5.9 | 0.80 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.9 | 0.57 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.9 | 0.98 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Trichloroethene | ND | | 5.9 | 0.77 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Vinyl chloride | ND | | 5.9 | 0.55 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Xylenes, Total | ND | | 18 | 2.6 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Cyclohexane | ND | | 5.9 | 0.44 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.9 | 0.88 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.9 | 1.0 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Dichlorodifluoromethane | ND | | 5.9 | 0.78 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.9 | 0.83 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.9 | 0.70 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Isopropylbenzene | ND | | 5.9 | 0.80 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Methyl acetate | ND | | 5.9 | 1.1 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Methylcyclohexane | ND | | 5.9 | 0.85 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Methyl tert-butyl ether | ND | | 5.9 | 0.88 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Trichlorofluoromethane | ND | | 5.9 | 1.1 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.9 | 1.3 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.9 | 0.94 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.9 | 0.77 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.9 | 0.75 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| **1,2,4-Trichlorobenzene** | **1.3** | **J** | 5.9 | 1.0 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| Toluene | ND | | 5.9 | 0.86 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| o-Xylene | ND | | 5.9 | 0.92 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.7 | ug/Kg | ☼ | 08/22/12 03:48 | 08/22/12 08:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *52 - 124* | *08/22/12 03:48* | *08/22/12 08:48* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *72 - 127* | *08/22/12 03:48* | *08/22/12 08:48* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *63 - 120* | *08/22/12 03:48* | *08/22/12 08:48* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *68 - 121* | *08/22/12 03:48* | *08/22/12 08:48* | *1* |

## Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:49 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 08/17/12 17:49 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:49 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 08/17/12 17:49 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 08/17/12 17:49 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 08/17/12 17:49 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 08/17/12 17:49 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 08/17/12 17:49 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 08/17/12 17:49 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 08/17/12 17:49 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *08/17/12 17:49* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *62 - 123* | | *08/17/12 17:49* | *40* |
| *4-Bromofluorobenzene (Surr)* | *82* | | *75 - 120* | | *08/17/12 17:49* | *40* |

**Client Sample ID: 40W@2'-4'**
**Date Collected: 08/09/12 03:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-11**
**Matrix: Solid**

### Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP (Continued)

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *88* | | *80 - 120* | | *08/17/12 17:49* | *40* |

### Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/14/12 14:00 | 08/15/12 21:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *65* | | *19 - 138* | *08/14/12 14:00* | *08/15/12 21:26* | *1* |
| *2-Fluorobiphenyl* | *82* | | *35 - 115* | *08/14/12 14:00* | *08/15/12 21:26* | *1* |
| *2-Fluorophenol* | *98* | | *20 - 110* | *08/14/12 14:00* | *08/15/12 21:26* | *1* |
| *Nitrobenzene-d5* | *97* | | *39 - 115* | *08/14/12 14:00* | *08/15/12 21:26* | *1* |
| *Phenol-d5* | *98* | | *30 - 118* | *08/14/12 14:00* | *08/15/12 21:26* | *1* |
| *Terphenyl-d14* | *91* | | *30 - 143* | *08/14/12 14:00* | *08/15/12 21:26* | *1* |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 78 | 7.5 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Acetophenone | ND | | 390 | 32 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Acenaphthylene | ND | | 78 | 8.9 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Anthracene** | **7.8** | **J** | 78 | 7.6 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Benzo[a]anthracene** | **51** | **J** | 78 | 9.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Benzo[a]pyrene** | **57** | **J** | 78 | 7.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Benzo[b]fluoranthene** | **86** | | 78 | 12 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Benzo[g,h,i]perylene** | **54** | **J** | 78 | 7.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Benzo[k]fluoranthene | ND | | 78 | 16 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Bis(2-chloroethyl)ether | ND | | 78 | 10 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 390 | 26 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 78 | 8.4 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Bis(2-ethylhexyl) phthalate** | **63** | **J** | 780 | 63 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 390 | 34 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Butyl benzyl phthalate | ND | | 390 | 53 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Carbazole | ND | | 78 | 7.2 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 4-Chloroaniline | ND | | 390 | 31 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2-Chloronaphthalene | ND | | 78 | 8.1 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 390 | 43 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Chrysene** | **64** | **J** | 78 | 9.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Dibenz(a,h)anthracene** | **16** | **J** | 78 | 8.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Dibenzofuran | ND | | 390 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Di-n-butyl phthalate | ND | | 390 | 49 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 390 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 40W@2'-4'**
**Date Collected: 08/09/12 03:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-11**
**Matrix: Solid**
**Percent Solids: 85.0**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | | 390 | 43 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Dimethyl phthalate | ND | | 390 | 42 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2,4-Dinitrotoluene | ND | | 390 | 31 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2,6-Dinitrotoluene | ND | | 390 | 40 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Di-n-octyl phthalate | ND | | 390 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Fluoranthene** | **76** | **J** | 78 | 8.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Fluorene | ND | | 78 | 10 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Hexachlorobenzene | ND | | 78 | 8.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Hexachlorobutadiene | ND | | 78 | 8.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Hexachlorocyclopentadiene | ND | | 390 | 42 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Hexachloroethane | ND | | 390 | 28 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **45** | **J** | 78 | 8.0 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Isophorone | ND | | 390 | 29 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **2-Methylnaphthalene** | **7.2** | **J** | 78 | 7.0 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Naphthalene | ND | | 78 | 6.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2-Nitroaniline | ND | | 2000 | 170 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 3-Nitroaniline | ND | | 2000 | 160 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 4-Nitroaniline | ND | | 2000 | 160 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Nitrobenzene | ND | | 780 | 32 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 78 | 9.1 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| N-Nitrosodiphenylamine | ND | | 390 | 36 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Phenanthrene** | **42** | **J** | 78 | 12 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| **Pyrene** | **71** | **J** | 78 | 7.9 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 4-Chloro-3-methylphenol | ND | | 390 | 36 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2-Chlorophenol | ND | | 390 | 32 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2-Methylphenol | ND | | 390 | 27 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2,4-Dichlorophenol | ND | | 78 | 7.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2,4-Dimethylphenol | ND | | 390 | 61 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2,4-Dinitrophenol | ND | | 2000 | 460 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2000 | 160 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2-Nitrophenol | ND | | 390 | 43 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 4-Nitrophenol | ND | | 2000 | 140 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Pentachlorophenol | ND | | 390 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Phenol | ND | | 78 | 9.2 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2,4,5-Trichlorophenol | ND | | 390 | 42 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 2,4,6-Trichlorophenol | ND | | 390 | 58 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| 1,1'-Biphenyl | ND | | 390 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Caprolactam | ND | | 2000 | 290 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Benzaldehyde | ND | | 390 | 58 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Atrazine | ND | | 390 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |
| Methylphenol, 3 & 4 | ND | | 390 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 19:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *76* | | *25 - 104* | *08/23/12 03:00* | *08/24/12 19:53* | *1* |
| *2-Fluorobiphenyl* | *70* | | *35 - 105* | *08/23/12 03:00* | *08/24/12 19:53* | *1* |
| *Terphenyl-d14* | *72* | | *25 - 127* | *08/23/12 03:00* | *08/24/12 19:53* | *1* |
| *Phenol-d5* | *73* | | *25 - 105* | *08/23/12 03:00* | *08/24/12 19:53* | *1* |
| *2-Fluorophenol* | *76* | | *39 - 103* | *08/23/12 03:00* | *08/24/12 19:53* | *1* |
| *2,4,6-Tribromophenol* | *86* | | *35 - 124* | *08/23/12 03:00* | *08/24/12 19:53* | *1* |

**Client Sample ID: 40W@2'-4'**
**Date Collected: 08/09/12 03:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-11**
**Matrix: Solid**
**Percent Solids: 85.0**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/22/12 01:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 131* | | *08/22/12 01:16* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.8 | 2.4 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 18:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *31* | *X* | *56 - 135* | *08/16/12 14:46* | *08/27/12 18:45* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | H | 3.9 | 2.5 | mg/Kg | ☼ | 08/29/12 17:09 | 08/30/12 16:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *65* | | *56 - 135* | *08/29/12 17:09* | *08/30/12 16:04* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 20 | 2.9 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:04 | 1 |
| PCB-1221 | ND | | 20 | 3.7 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:04 | 1 |
| PCB-1232 | ND | | 20 | 3.4 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:04 | 1 |
| PCB-1242 | ND | | 20 | 3.2 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:04 | 1 |
| PCB-1248 | ND | | 20 | 1.9 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:04 | 1 |
| PCB-1254 | ND | | 20 | 2.8 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:04 | 1 |
| **PCB-1260** | **5.4** | **J** | 20 | 2.8 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *69* | | *35 - 140* | *08/23/12 05:03* | *08/28/12 04:04* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *81* | | *35 - 140* | *08/23/12 05:03* | *08/28/12 04:04* | *1* |

## Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.2** | | 1.1 | 0.24 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:58 | 1 |
| **Barium** | **58** | **B** | 22 | 0.054 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:58 | 1 |
| **Cadmium** | **0.073** | **J** | 0.54 | 0.026 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:58 | 1 |
| **Chromium** | **17** | | 0.54 | 0.093 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:58 | 1 |
| **Lead** | **9.6** | | 0.33 | 0.16 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:58 | 1 |
| **Selenium** | **0.63** | **B** | 0.54 | 0.23 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:58 | 1 |
| Silver | ND | | 0.54 | 0.063 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 06:58 | 1 |

## Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.013** | **J** | 0.050 | 0.0027 | mg/L | | 08/15/12 09:47 | 08/16/12 14:52 | 1 |
| **Barium** | **0.33** | **B** | 0.20 | 0.00062 | mg/L | | 08/15/12 09:47 | 08/16/12 14:52 | 1 |
| **Cadmium** | **0.00018** | **J** | 0.050 | 0.00013 | mg/L | | 08/15/12 09:47 | 08/16/12 14:52 | 1 |
| **Chromium** | **0.0044** | **J** | 0.050 | 0.00057 | mg/L | | 08/15/12 09:47 | 08/16/12 14:52 | 1 |
| **Lead** | **0.036** | **J** | 0.050 | 0.0013 | mg/L | | 08/15/12 09:47 | 08/16/12 14:52 | 1 |
| **Selenium** | **0.0068** | **J B** | 0.050 | 0.0030 | mg/L | | 08/15/12 09:47 | 08/16/12 14:52 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/15/12 09:47 | 08/16/12 14:52 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

## Client Sample ID: 40W@2'-4'

**Lab Sample ID: 180-13351-11**

**Date Collected: 08/09/12 03:15**

**Matrix: Solid**

**Date Received: 08/11/12 09:00**

### Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/16/12 10:01 | 08/16/12 15:32 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.14** | | 0.037 | 0.012 | mg/Kg | ☼ | 08/29/12 06:52 | 08/29/12 13:32 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.60 | 0.12 | mg/Kg | ☼ | 08/21/12 10:10 | 08/21/12 12:51 | 1 |
| Sulfide | ND | | 35 | 7.0 | mg/Kg | ☼ | 08/15/12 13:45 | 08/15/12 17:00 | 1 |
| **HEM** | **51** | **J** | 200 | 27 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ignitability** | **>140** | | | | Degrees F | | | 08/23/12 14:58 | 1 |
| **Flashpoint** | **>140** | | | | Degrees F | | | 08/23/12 14:58 | 1 |
| **pH** | **5.78** | | 0.100 | 0.100 | SU | | | 08/16/12 13:06 | 1 |
| **Percent Moisture** | **15** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| **Percent Solids** | **85** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 40W

**Lab Sample ID: 180-13351-12**

**Date Collected: 08/09/12 03:30**

**Matrix: Water**

**Date Received: 08/11/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | * | 20 | 5.0 | ug/L | | | 08/16/12 18:01 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 18:01 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 18:01 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:01 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 18:01 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:01 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:01 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:01 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 18:01 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 18:01 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 18:01 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 18:01 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 18:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 18:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 18:01 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/16/12 18:01 | 1 |
| 2-Hexanone | ND | * | 5.0 | 0.57 | ug/L | | | 08/16/12 18:01 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:01 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 18:01 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 18:01 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 18:01 | 1 |

**Client Sample ID: 40W**
**Date Collected: 08/09/12 03:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-12**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 18:01 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 18:01 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 18:01 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/16/12 18:01 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 18:01 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 18:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 18:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 18:01 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 18:01 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 18:01 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 18:01 | 1 |
| **Methyl tert-butyl ether** | **3.6** | **J** | 5.0 | 1.0 | ug/L | | | 08/16/12 18:01 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 18:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/16/12 18:01 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/16/12 18:01 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 18:01 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/16/12 18:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *66* | | *62 - 123* | | *08/16/12 18:01* | *1* |
| *Toluene-d8 (Surr)* | *113* | | *80 - 120* | | *08/16/12 18:01* | *1* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *75 - 120* | | *08/16/12 18:01* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 120* | | *08/16/12 18:01* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Acetophenone | ND | | 9.6 | 0.77 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.6 | 0.56 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | 0.61 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Butyl benzyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 4-Chloroaniline | ND | | 9.6 | 0.85 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 40W**
**Date Collected: 08/09/12 03:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-12**
**Matrix: Water**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenyl phenyl ether | ND | | 9.6 | 0.48 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Dibenzofuran | ND | | 9.6 | 0.59 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Di-n-butyl phthalate | ND | | 9.6 | 1.2 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.6 | 1.1 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Diethyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Dimethyl phthalate | ND | | 9.6 | 0.74 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | 0.52 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.6 | 0.77 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Di-n-octyl phthalate | ND | | 9.6 | 2.0 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.6 | 0.50 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Hexachloroethane | ND | | 9.6 | 0.60 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Isophorone | ND | | 9.6 | 0.62 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.4 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.7 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Nitrobenzene | ND | | 19 | 0.81 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.6 | 0.82 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.6 | 0.73 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2-Chlorophenol | ND | | 9.6 | 1.6 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2-Methylphenol | ND | | 9.6 | 0.83 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2,4-Dimethylphenol | ND | | 9.6 | 0.82 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.9 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2-Nitrophenol | ND | | 9.6 | 1.6 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Pentachlorophenol | ND | | 9.6 | 0.64 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.6 | 1.5 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.6 | 1.7 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| 1,1'-Biphenyl | ND | | 9.6 | 0.40 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Benzaldehyde | ND | | 9.6 | 1.4 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Atrazine | ND | | 9.6 | 0.86 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.6 | 0.87 | ug/L | | 08/16/12 08:55 | 08/17/12 23:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *70* | | *37 - 104* | *08/16/12 08:55* | *08/17/12 23:08* | *1* |
| *2-Fluorobiphenyl* | *64* | | *35 - 108* | *08/16/12 08:55* | *08/17/12 23:08* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 40W**
**Date Collected: 08/09/12 03:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-12**
**Matrix: Water**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Terphenyl-d14* | *57* | | *25 - 130* | *08/16/12 08:55* | *08/17/12 23:08* | *1* |
| *Phenol-d5* | *63* | | *30 - 102* | *08/16/12 08:55* | *08/17/12 23:08* | *1* |
| *2-Fluorophenol* | *69* | | *26 - 100* | *08/16/12 08:55* | *08/17/12 23:08* | *1* |
| *2,4,6-Tribromophenol* | *71* | | *33 - 122* | *08/16/12 08:55* | *08/17/12 23:08* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 12:20 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *98* | | *70 - 130* | | *08/23/12 12:20* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **1.3** | | 0.099 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 14:55 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *68* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 14:55* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 08/14/12 13:40 | 08/20/12 19:33 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 08/14/12 13:40 | 08/20/12 19:33 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 08/14/12 13:40 | 08/20/12 19:33 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 08/14/12 13:40 | 08/20/12 19:33 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 08/14/12 13:40 | 08/20/12 19:33 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 08/14/12 13:40 | 08/20/12 19:33 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 08/14/12 13:40 | 08/20/12 19:33 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *80* | | *35 - 140* | *08/14/12 13:40* | *08/20/12 19:33* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* | *08/14/12 13:40* | *08/20/12 19:33* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **94** | | 10 | 2.7 | ug/L | | 08/14/12 09:38 | 08/15/12 11:51 | 1 |
| **Barium** | **380** | **B** | 200 | 0.62 | ug/L | | 08/14/12 09:38 | 08/15/12 11:51 | 1 |
| **Cadmium** | **4.1** | **J** | 5.0 | 0.13 | ug/L | | 08/14/12 09:38 | 08/15/12 11:51 | 1 |
| **Chromium** | **210** | | 5.0 | 0.57 | ug/L | | 08/14/12 09:38 | 08/15/12 11:51 | 1 |
| **Lead** | **65** | | 3.0 | 1.3 | ug/L | | 08/14/12 09:38 | 08/15/12 11:51 | 1 |
| **Selenium** | **4.4** | **J** | 5.0 | 3.0 | ug/L | | 08/14/12 09:38 | 08/15/12 11:51 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/14/12 09:38 | 08/15/12 11:51 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.18** | **J** | 0.20 | 0.038 | ug/L | | 08/30/12 07:14 | 08/30/12 13:12 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.3** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **TPH** | **2.1** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: TRIP BLANK (TB)**
**Date Collected: 08/09/12 00:00**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-13**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | * | 20 | 5.0 | ug/L | | | 08/16/12 18:25 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 18:25 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 18:25 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:25 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 18:25 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:25 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:25 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:25 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 18:25 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 18:25 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 18:25 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 18:25 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 18:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 18:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 18:25 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/16/12 18:25 | 1 |
| 2-Hexanone | ND | * | 5.0 | 0.57 | ug/L | | | 08/16/12 18:25 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 18:25 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 18:25 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 18:25 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 18:25 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 18:25 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/16/12 18:25 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 18:25 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 18:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 18:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 18:25 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 18:25 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 18:25 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 18:25 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 18:25 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 18:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 08/16/12 18:25 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/16/12 18:25 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 18:25 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/16/12 18:25 | 1 |

## Client Sample ID: TRIP BLANK (TB)

**Lab Sample ID: 180-13351-13**

**Date Collected: 08/09/12 00:00**
**Matrix: Water**
**Date Received: 08/11/12 09:00**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *74* | | *62 - 123* | | *08/16/12 18:25* | *1* |
| *Toluene-d8 (Surr)* | *111* | | *80 - 120* | | *08/16/12 18:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *77* | | *75 - 120* | | *08/16/12 18:25* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *80 - 120* | | *08/16/12 18:25* | *1* |

## Client Sample ID: 43W@2-4'

**Lab Sample ID: 180-13351-14**

**Date Collected: 08/10/12 08:45**
**Matrix: Solid**
**Date Received: 08/11/12 09:00**
**Percent Solids: 86.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.8 | 0.78 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:57 | 1 |
| Toluene | ND | | 5.8 | 0.84 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:57 | 1 |
| Ethylbenzene | ND | | 5.8 | 0.74 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:57 | 1 |
| Xylenes, Total | ND | | 17 | 2.6 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 12:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *99* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 12:57* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 12:57* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 12:57* | *1* |
| *Dibromofluoromethane (Surr)* | *100* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 12:57* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/24/12 14:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 131* | | *08/24/12 14:25* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2.5** | **J** | 3.8 | 2.4 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 18:58 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *82* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 18:58* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.1 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **81** | **J** | 190 | 27 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **13** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| **Percent Solids** | **87** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 43W

**Lab Sample ID: 180-13351-15**

**Date Collected: 08/10/12 09:10**
**Matrix: Water**
**Date Received: 08/11/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/17/12 21:53 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/17/12 21:53 | 1 |

## Client Sample ID: 43W

**Date Collected: 08/10/12 09:10**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-15

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/17/12 21:53 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/17/12 21:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *64 - 135* | | *08/17/12 21:53* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *71 - 118* | | *08/17/12 21:53* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 118* | | *08/17/12 21:53* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *70 - 128* | | *08/17/12 21:53* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 12:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 130* | | *08/23/12 12:46* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2.2** | | 0.097 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 15:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *89* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 15:09* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.4** | **J** | 6.7 | 2.0 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **TPH** | **2.4** | **J** | 6.7 | 2.0 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **Halogens, Total Organic** | **0.11** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 1** | **0.10** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 2** | **0.12** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

## Client Sample ID: 43WD@2-4'

**Date Collected: 08/10/12 08:45**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-16

**Matrix: Solid**
**Percent Solids: 89.1**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.6 | 0.76 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 13:21 | 1 |
| Toluene | ND | | 5.6 | 0.82 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 13:21 | 1 |
| Ethylbenzene | ND | | 5.6 | 0.72 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 13:21 | 1 |
| Xylenes, Total | ND | | 17 | 2.5 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 13:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 13:21* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 13:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *82* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 13:21* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 13:21* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.28 | 0.021 | mg/Kg | ☼ | | 08/24/12 14:45 | 1 |

## Client Sample ID: 43WD@2-4'

**Date Collected: 08/10/12 08:45**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-16**
**Matrix: Solid**
**Percent Solids: 89.1**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 131* | | *08/24/12 14:45* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **3.1** | **J** | 3.7 | 2.4 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 19:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *87* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 19:12* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.9 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **82** | **J** | 190 | 26 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **11** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| **Percent Solids** | **89** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 43WD

**Date Collected: 08/10/12 09:10**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-17**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 16:13 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 16:13 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 16:13 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 16:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 135* | | *08/18/12 16:13* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *71 - 118* | | *08/18/12 16:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 118* | | *08/18/12 16:13* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *70 - 128* | | *08/18/12 16:13* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 13:12 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *98* | | *70 - 130* | | *08/23/12 13:12* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2.0** | | 0.097 | 0.048 | mg/L | | 08/15/12 15:19 | 08/22/12 15:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *79* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 15:23* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.4** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **TPH** | **1.6** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **Halogens, Total Organic** | **0.12** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

## Client Sample ID: 43WD

**Lab Sample ID: 180-13351-17**

**Date Collected: 08/10/12 09:10**

**Matrix: Water**

**Date Received: 08/11/12 09:00**

### General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.12 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| TOX Result 2 | 0.11 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

## Client Sample ID: 39@2-4'

**Lab Sample ID: 180-13351-18**

**Date Collected: 08/10/12 09:30**

**Matrix: Solid**

**Date Received: 08/11/12 09:00**

**Percent Solids: 87.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.7 | 0.77 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 13:45 | 1 |
| Toluene | ND | | 5.7 | 0.84 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 13:45 | 1 |
| Ethylbenzene | ND | | 5.7 | 0.74 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 13:45 | 1 |
| Xylenes, Total | ND | | 17 | 2.6 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 13:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *76* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 13:45* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 13:45* | *1* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 13:45* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 13:45* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/24/12 15:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 131* | | *08/24/12 15:04* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 2.5 | J | 3.8 | 2.4 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 19:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *63* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 19:26* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 8.0 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| HEM | 72 | J | 190 | 26 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 13 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| Percent Solids | 87 | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 38@4-6'

**Lab Sample ID: 180-13351-19**

**Date Collected: 08/10/12 10:15**

**Matrix: Solid**

**Date Received: 08/11/12 09:00**

**Percent Solids: 79.0**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 25 | 6.3 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Benzene | ND | | 6.3 | 0.85 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Dichlorobromomethane | ND | | 6.3 | 0.71 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Bromoform | ND | | 6.3 | 0.56 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 38@4-6'**
**Date Collected: 08/10/12 10:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-19**
**Matrix: Solid**
**Percent Solids: 79.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | ND | | 6.3 | 0.94 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 2-Butanone (MEK) | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Carbon disulfide | ND | | 6.3 | 0.65 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Carbon tetrachloride | ND | | 6.3 | 0.57 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Chlorobenzene | ND | | 6.3 | 0.96 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Chloroethane | ND | | 6.3 | 2.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Chloroform | ND | | 6.3 | 0.74 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Chloromethane | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Chlorodibromomethane | ND | | 6.3 | 0.90 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,1-Dichloroethane | ND | | 6.3 | 0.73 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,2-Dichloroethane | ND | | 6.3 | 0.78 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,1-Dichloroethene | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,2-Dichloroethene, Total | ND | | 13 | 1.6 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,2-Dichloropropane | ND | | 6.3 | 0.69 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| cis-1,3-Dichloropropene | ND | | 6.3 | 0.86 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| trans-1,3-Dichloropropene | ND | | 6.3 | 0.76 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Ethylbenzene | ND | | 6.3 | 0.81 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 2-Hexanone | ND | | 6.3 | 0.87 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Methylene Chloride | ND | | 6.3 | 0.85 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 6.3 | 0.83 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Styrene | ND | | 6.3 | 0.89 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.3 | 0.91 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Tetrachloroethene | ND | | 6.3 | 0.86 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,1,1-Trichloroethane | ND | | 6.3 | 0.62 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,1,2-Trichloroethane | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Trichloroethene | ND | | 6.3 | 0.83 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Vinyl chloride | ND | | 6.3 | 0.59 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Xylenes, Total | ND | | 19 | 2.8 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Cyclohexane | ND | | 6.3 | 0.47 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.3 | 0.95 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Dichlorodifluoromethane | ND | | 6.3 | 0.84 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| cis-1,2-Dichloroethene | ND | | 6.3 | 0.89 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| trans-1,2-Dichloroethene | ND | | 6.3 | 0.75 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Isopropylbenzene | ND | | 6.3 | 0.86 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Methyl acetate | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Methylcyclohexane | ND | | 6.3 | 0.92 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Methyl tert-butyl ether | ND | | 6.3 | 0.95 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Trichlorofluoromethane | ND | | 6.3 | 1.2 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.3 | 1.4 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,2-Dichlorobenzene | ND | | 6.3 | 1.0 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,3-Dichlorobenzene | ND | | 6.3 | 0.83 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,4-Dichlorobenzene | ND | | 6.3 | 0.81 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 6.3 | 1.1 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| Toluene | ND | | 6.3 | 0.92 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| o-Xylene | ND | | 6.3 | 0.99 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |
| m-Xylene & p-Xylene | ND | | 13 | 1.9 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 14:09* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 14:09* | *1* |

**Client Sample ID: 38@4-6'**
**Date Collected: 08/10/12 10:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-19**
**Matrix: Solid**
**Percent Solids: 79.0**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *84* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 14:09* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 14:09* | *1* |

## Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 08/22/12 10:59 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 08/22/12 10:59 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 08/22/12 10:59 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 08/22/12 10:59 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 08/22/12 10:59 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 08/22/12 10:59 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 08/22/12 10:59 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 08/22/12 10:59 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 08/22/12 10:59 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 08/22/12 10:59 | 40 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *83* | | *80 - 120* | | *08/22/12 10:59* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *120* | | *62 - 123* | | *08/22/12 10:59* | *40* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *75 - 120* | | *08/22/12 10:59* | *40* |
| *Dibromofluoromethane (Surr)* | *109* | | *80 - 120* | | *08/22/12 10:59* | *40* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/21/12 13:00 | 08/22/12 16:15 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *66* | | *19 - 138* | *08/21/12 13:00* | *08/22/12 16:15* | *1* |
| *2-Fluorobiphenyl* | *65* | | *35 - 115* | *08/21/12 13:00* | *08/22/12 16:15* | *1* |
| *2-Fluorophenol* | *84* | | *20 - 110* | *08/21/12 13:00* | *08/22/12 16:15* | *1* |
| *Nitrobenzene-d5* | *76* | | *39 - 115* | *08/21/12 13:00* | *08/22/12 16:15* | *1* |
| *Phenol-d5* | *87* | | *30 - 118* | *08/21/12 13:00* | *08/22/12 16:15* | *1* |
| *Terphenyl-d14* | *72* | | *30 - 143* | *08/21/12 13:00* | *08/22/12 16:15* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **22** | **J** | 85 | 8.1 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Acetophenone | ND | | 420 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Acenaphthylene | ND | | 85 | 9.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Anthracene** | **33** | **J** | 85 | 8.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Benzo[a]anthracene** | **47** | **J** | 85 | 11 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 38@4-6'**
**Date Collected: 08/10/12 10:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-19**
**Matrix: Solid**
**Percent Solids: 79.0**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzo[a]pyrene** | **47** | **J** | 85 | 8.5 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Benzo[b]fluoranthene** | **38** | **J** | 85 | 13 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Benzo[g,h,i]perylene** | **45** | **J** | 85 | 8.4 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Benzo[k]fluoranthene** | **24** | **J** | 85 | 17 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Bis(2-chloroethyl)ether | ND | | 85 | 11 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 420 | 28 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 85 | 9.1 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Bis(2-ethylhexyl) phthalate** | **140** | **J** | 850 | 68 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 420 | 37 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Butyl benzyl phthalate | ND | | 420 | 58 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Carbazole | ND | | 85 | 7.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 4-Chloroaniline | ND | | 420 | 34 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2-Chloronaphthalene | ND | | 85 | 8.8 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 420 | 47 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Chrysene** | **51** | **J** | 85 | 10 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Dibenz(a,h)anthracene** | **11** | **J** | 85 | 9.4 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Dibenzofuran | ND | | 420 | 42 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Di-n-butyl phthalate | ND | | 420 | 53 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 420 | 45 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Diethyl phthalate | ND | | 420 | 46 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Dimethyl phthalate | ND | | 420 | 46 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2,4-Dinitrotoluene | ND | | 420 | 34 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2,6-Dinitrotoluene | ND | | 420 | 44 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Di-n-octyl phthalate | ND | | 420 | 45 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Fluoranthene** | **70** | **J** | 85 | 9.0 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Fluorene** | **22** | **J** | 85 | 11 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Hexachlorobenzene | ND | | 85 | 9.0 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Hexachlorobutadiene | ND | | 85 | 9.5 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Hexachlorocyclopentadiene | ND | | 420 | 46 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Hexachloroethane | ND | | 420 | 30 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **33** | **J** | 85 | 8.7 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Isophorone | ND | | 420 | 32 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **2-Methylnaphthalene** | **11** | **J** | 85 | 7.6 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Naphthalene | ND | | 85 | 7.3 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2-Nitroaniline | ND | | 2200 | 190 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 3-Nitroaniline | ND | | 2200 | 170 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 4-Nitroaniline | ND | | 2200 | 170 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Nitrobenzene | ND | | 850 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 85 | 9.9 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| N-Nitrosodiphenylamine | ND | | 420 | 39 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Phenanthrene** | **88** | | 85 | 13 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| **Pyrene** | **96** | | 85 | 8.5 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 4-Chloro-3-methylphenol | ND | | 420 | 39 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2-Chlorophenol | ND | | 420 | 35 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2-Methylphenol | ND | | 420 | 30 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2,4-Dichlorophenol | ND | | 85 | 8.5 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2,4-Dimethylphenol | ND | | 420 | 66 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2,4-Dinitrophenol | ND | | 2200 | 500 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2200 | 170 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2-Nitrophenol | ND | | 420 | 47 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 4-Nitrophenol | ND | | 2200 | 150 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 38@4-6'**
**Date Collected: 08/10/12 10:15**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-19**
**Matrix: Solid**
**Percent Solids: 79.0**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Pentachlorophenol | ND | | 420 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Phenol | ND | | 85 | 10 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2,4,5-Trichlorophenol | ND | | 420 | 45 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 2,4,6-Trichlorophenol | ND | | 420 | 63 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| 1,1'-Biphenyl | ND | | 420 | 38 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Caprolactam | ND | | 2200 | 320 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Benzaldehyde | ND | | 420 | 63 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Atrazine | ND | | 420 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |
| Methylphenol, 3 & 4 | ND | | 420 | 41 | ug/Kg | ☼ | 08/23/12 03:00 | 08/24/12 20:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *78* | | *25 - 104* | *08/23/12 03:00* | *08/24/12 20:15* | *1* |
| *2-Fluorobiphenyl* | *76* | | *35 - 105* | *08/23/12 03:00* | *08/24/12 20:15* | *1* |
| *Terphenyl-d14* | *79* | | *25 - 127* | *08/23/12 03:00* | *08/24/12 20:15* | *1* |
| *Phenol-d5* | *75* | | *25 - 105* | *08/23/12 03:00* | *08/24/12 20:15* | *1* |
| *2-Fluorophenol* | *76* | | *39 - 103* | *08/23/12 03:00* | *08/24/12 20:15* | *1* |
| *2,4,6-Tribromophenol* | *95* | | *35 - 124* | *08/23/12 03:00* | *08/24/12 20:15* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.32 | 0.024 | mg/Kg | ☼ | | 08/22/12 20:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *94* | | *70 - 131* | | *08/22/12 20:24* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **52** | | 4.2 | 2.7 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 19:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *80* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 19:40* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 21 | 3.1 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:32 | 1 |
| PCB-1221 | ND | | 21 | 4.0 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:32 | 1 |
| PCB-1232 | ND | | 21 | 3.6 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:32 | 1 |
| PCB-1242 | ND | | 21 | 3.4 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:32 | 1 |
| PCB-1248 | ND | | 21 | 2.0 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:32 | 1 |
| PCB-1254 | ND | | 21 | 3.0 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:32 | 1 |
| **PCB-1260** | **15** | **J** | 21 | 3.0 | ug/Kg | ☼ | 08/23/12 05:03 | 08/28/12 04:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *67* | | *35 - 140* | *08/23/12 05:03* | *08/28/12 04:32* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *83* | | *35 - 140* | *08/23/12 05:03* | *08/28/12 04:32* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **2.4** | | 1.2 | 0.27 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 07:04 | 1 |
| **Barium** | **17** | **J B** | 24 | 0.060 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 07:04 | 1 |
| **Cadmium** | **0.049** | **J** | 0.60 | 0.029 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 07:04 | 1 |
| **Chromium** | **8.1** | | 0.60 | 0.10 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 07:04 | 1 |

## Client Sample ID: 38@4-6'

**Date Collected: 08/10/12 10:15**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-19

**Matrix: Solid**
**Percent Solids: 79.0**

### Method: 6010B - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Lead** | **5.9** | | 0.36 | 0.17 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 07:04 | 1 |
| Selenium | ND | | 0.60 | 0.25 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 07:04 | 1 |
| Silver | ND | | 0.60 | 0.069 | mg/Kg | ☼ | 08/16/12 16:15 | 08/25/12 07:04 | 1 |

### Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/22/12 10:51 | 08/25/12 03:56 | 1 |
| **Barium** | **0.16** | **J** | 0.20 | 0.00062 | mg/L | | 08/22/12 10:51 | 08/25/12 03:56 | 1 |
| **Cadmium** | **0.00062** | **J B** | 0.050 | 0.00013 | mg/L | | 08/22/12 10:51 | 08/25/12 03:56 | 1 |
| **Chromium** | **0.0046** | **J** | 0.050 | 0.00057 | mg/L | | 08/22/12 10:51 | 08/25/12 03:56 | 1 |
| **Lead** | **0.034** | **J** | 0.050 | 0.0013 | mg/L | | 08/22/12 10:51 | 08/25/12 03:56 | 1 |
| **Selenium** | **0.0066** | **J B** | 0.050 | 0.0030 | mg/L | | 08/22/12 10:51 | 08/25/12 03:56 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/22/12 10:51 | 08/25/12 03:56 | 1 |

### Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/23/12 08:59 | 08/23/12 15:39 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.039 | 0.013 | mg/Kg | ☼ | 08/29/12 06:52 | 08/29/12 13:34 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.62 | 0.12 | mg/Kg | ☼ | 08/21/12 10:10 | 08/21/12 12:58 | 1 |
| **Sulfide** | **7.6** | **J** | 38 | 7.5 | mg/Kg | ☼ | 08/15/12 13:45 | 08/15/12 17:00 | 1 |
| **HEM** | **560** | | 210 | 29 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Ignitability** | **>140** | | | | Degrees F | | | 08/23/12 15:00 | 1 |
| **Flashpoint** | **>140** | | | | Degrees F | | | 08/23/12 15:00 | 1 |
| **pH** | **6.24** | | 0.100 | 0.100 | SU | | | 08/16/12 13:09 | 1 |
| **Percent Moisture** | **21** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| **Percent Solids** | **79** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 38W

**Date Collected: 08/10/12 10:30**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-20

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 16:37 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 16:37 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 16:37 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 16:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 135* | | *08/18/12 16:37* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *71 - 118* | | *08/18/12 16:37* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 118* | | *08/18/12 16:37* | *1* |
| *Dibromofluoromethane (Surr)* | *118* | | *70 - 128* | | *08/18/12 16:37* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

## Client Sample ID: 38W

**Lab Sample ID: 180-13351-20**

**Date Collected: 08/10/12 10:30**

**Matrix: Water**

**Date Received: 08/11/12 09:00**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 13:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/23/12 13:37* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.84** | | 0.099 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 15:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *80* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 15:37* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.9** | **J** | 6.7 | 2.0 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| TPH | ND | | 6.7 | 2.0 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **Halogens, Total Organic** | **0.081** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 1** | **0.079** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 2** | **0.084** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

## Client Sample ID: 67W@3-5'

**Lab Sample ID: 180-13351-21**

**Date Collected: 08/10/12 11:30**

**Matrix: Solid**

**Date Received: 08/11/12 09:00**

**Percent Solids: 93.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.3 | 0.72 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:33 | 1 |
| Toluene | ND | | 5.3 | 0.78 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:33 | 1 |
| Ethylbenzene | ND | | 5.3 | 0.68 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:33 | 1 |
| Xylenes, Total | ND | | 16 | 2.4 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 14:33* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 14:33* | *1* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 14:33* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 14:33* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.27 | 0.020 | mg/Kg | ☼ | | 08/22/12 20:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *94* | | *70 - 131* | | *08/22/12 20:44* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2.5** | **J** | 3.5 | 2.2 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 19:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *85* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 19:55* | *1* |

## Client Sample ID: 67W@3-5'

**Lab Sample ID: 180-13351-21**
**Date Collected: 08/10/12 11:30**
**Matrix: Solid**
**Date Received: 08/11/12 09:00**
**Percent Solids: 93.9**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.5 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **60** | **J** | 180 | 25 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **6.1** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| **Percent Solids** | **94** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 67W

**Lab Sample ID: 180-13351-22**
**Date Collected: 08/10/12 11:50**
**Matrix: Water**
**Date Received: 08/11/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 17:01 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 17:01 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 17:01 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 17:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 135* | | *08/18/12 17:01* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *71 - 118* | | *08/18/12 17:01* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 118* | | *08/18/12 17:01* | *1* |
| *Dibromofluoromethane (Surr)* | *114* | | *70 - 128* | | *08/18/12 17:01* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 14:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/23/12 14:03* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.15** | | 0.098 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 15:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *79* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 15:51* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.0** | **J** | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| TPH | ND | | 5.2 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **Halogens, Total Organic** | **0.034** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 1** | **0.032** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 2** | **0.036** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

## Client Sample ID: 66W@3-5'

**Lab Sample ID: 180-13351-23**
**Date Collected: 08/10/12 12:15**
**Matrix: Solid**
**Date Received: 08/11/12 09:00**
**Percent Solids: 92.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.4 | 0.73 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:58 | 1 |

## Client Sample ID: 66W@3-5'

**Date Collected: 08/10/12 12:15**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-23

**Matrix: Solid**
**Percent Solids: 92.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 5.4 | 0.79 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:58 | 1 |
| Ethylbenzene | ND | | 5.4 | 0.69 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:58 | 1 |
| Xylenes, Total | ND | | 16 | 2.4 | ug/Kg | ☼ | 08/20/12 03:07 | 08/20/12 14:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *77* | | *52 - 124* | *08/20/12 03:07* | *08/20/12 14:58* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *72 - 127* | *08/20/12 03:07* | *08/20/12 14:58* | *1* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *63 - 120* | *08/20/12 03:07* | *08/20/12 14:58* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *68 - 121* | *08/20/12 03:07* | *08/20/12 14:58* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.27 | 0.020 | mg/Kg | ☼ | | 08/22/12 21:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *98* | | *70 - 131* | | *08/22/12 21:04* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **3.4** | **J** | 3.5 | 2.2 | mg/Kg | ☼ | 08/16/12 14:46 | 08/27/12 20:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *84* | | *56 - 135* | *08/16/12 14:46* | *08/27/12 20:09* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.5 | mg/Kg | ☼ | 09/04/12 07:15 | 09/04/12 07:22 | 1 |
| **HEM** | **83** | **J** | 180 | 25 | mg/Kg | ☼ | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **7.1** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |
| **Percent Solids** | **93** | | 0.10 | 0.10 | % | | | 08/14/12 15:02 | 1 |

## Client Sample ID: 66W

**Date Collected: 08/10/12 12:30**
**Date Received: 08/11/12 09:00**

## Lab Sample ID: 180-13351-24

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 17:25 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 17:25 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 17:25 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 17:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 135* | | *08/18/12 17:25* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *71 - 118* | | *08/18/12 17:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 118* | | *08/18/12 17:25* | *1* |
| *Dibromofluoromethane (Surr)* | *116* | | *70 - 128* | | *08/18/12 17:25* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

**Client Sample ID: 66W**
**Date Collected: 08/10/12 12:30**
**Date Received: 08/11/12 09:00**

**Lab Sample ID: 180-13351-24**
**Matrix: Water**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 14:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/23/12 14:28* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.10** | | 0.099 | 0.049 | mg/L | | 08/15/12 15:19 | 08/22/12 16:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *88* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 16:05* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 20 | 6.0 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| TPH | ND | | 20 | 5.9 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| **Halogens, Total Organic** | **0.043** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| **TOX Result 1** | **0.043** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| **TOX Result 2** | **0.043** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13351-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-45239/3**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 08/16/12 11:03 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 11:03 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 08/16/12 11:03 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 08/16/12 11:03 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:03 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 11:03 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:03 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 08/16/12 11:03 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 11:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 11:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 08/16/12 11:03 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 08/16/12 11:03 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 08/16/12 11:03 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 08/16/12 11:03 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 08/16/12 11:03 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 11:03 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 08/16/12 11:03 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 08/16/12 11:03 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 08/16/12 11:03 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 08/16/12 11:03 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 08/16/12 11:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 08/16/12 11:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 08/16/12 11:03 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:03 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 08/16/12 11:03 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 08/16/12 11:03 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 08/16/12 11:03 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 08/16/12 11:03 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.38 | ug/L | | | 08/16/12 11:03 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 08/16/12 11:03 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45239/3**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 08/16/12 11:03 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 08/16/12 11:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 123* | | *08/16/12 11:03* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *80 - 120* | | *08/16/12 11:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *75 - 120* | | *08/16/12 11:03* | *1* |
| *Dibromofluoromethane (Surr)* | *89* | | *80 - 120* | | *08/16/12 11:03* | *1* |

**Lab Sample ID: LCS 180-45239/6**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 25.6 | | ug/L | | 64 | 10 - 141 |
| Dichlorobromomethane | 40.0 | 32.9 | | ug/L | | 82 | 71 - 119 |
| Benzene | 40.0 | 40.8 | | ug/L | | 102 | 80 - 120 |
| Bromoform | 40.0 | 30.1 | | ug/L | | 75 | 49 - 137 |
| Bromomethane | 40.0 | 32.1 | | ug/L | | 80 | 45 - 150 |
| 2-Butanone (MEK) | 40.0 | 30.4 | | ug/L | | 76 | 31 - 139 |
| Carbon disulfide | 40.0 | 42.6 | | ug/L | | 106 | 62 - 126 |
| Carbon tetrachloride | 40.0 | 36.0 | | ug/L | | 90 | 63 - 139 |
| Chlorobenzene | 40.0 | 40.9 | | ug/L | | 102 | 83 - 120 |
| Chloroethane | 40.0 | 40.4 | | ug/L | | 101 | 33 - 150 |
| Chloroform | 40.0 | 35.3 | | ug/L | | 88 | 77 - 119 |
| Chloromethane | 40.0 | 43.2 | | ug/L | | 108 | 49 - 133 |
| Chlorodibromomethane | 40.0 | 34.3 | | ug/L | | 86 | 64 - 124 |
| 1,1-Dichloroethane | 40.0 | 38.2 | | ug/L | | 96 | 77 - 122 |
| 1,2-Dichloroethane | 40.0 | 30.1 | | ug/L | | 75 | 63 - 140 |
| 1,1-Dichloroethene | 40.0 | 42.4 | | ug/L | | 106 | 69 - 127 |
| 1,2-Dichloropropane | 40.0 | 38.1 | | ug/L | | 95 | 75 - 114 |
| cis-1,3-Dichloropropene | 40.0 | 32.1 | | ug/L | | 80 | 74 - 123 |
| trans-1,3-Dichloropropene | 40.0 | 30.6 | | ug/L | | 76 | 63 - 122 |
| Ethylbenzene | 40.0 | 44.0 | | ug/L | | 110 | 79 - 124 |
| 2-Hexanone | 40.0 | 27.3 | | ug/L | | 68 | 35 - 129 |
| Methylene Chloride | 40.0 | 36.4 | | ug/L | | 91 | 75 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 30.3 | | ug/L | | 76 | 33 - 135 |
| Styrene | 40.0 | 40.1 | | ug/L | | 100 | 78 - 124 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 38.5 | | ug/L | | 96 | 59 - 136 |
| Tetrachloroethene | 40.0 | 44.1 | | ug/L | | 110 | 78 - 126 |
| 1,1,1-Trichloroethane | 40.0 | 34.8 | | ug/L | | 87 | 69 - 134 |
| 1,1,2-Trichloroethane | 40.0 | 37.4 | | ug/L | | 94 | 75 - 126 |
| Trichloroethene | 40.0 | 40.4 | | ug/L | | 101 | 80 - 120 |
| Vinyl chloride | 40.0 | 40.9 | | ug/L | | 102 | 57 - 128 |
| Xylenes, Total | 120 | 129 | | ug/L | | 107 | 81 - 121 |
| Cyclohexane | 40.0 | 43.2 | | ug/L | | 108 | 69 - 124 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 43.1 | | ug/L | | 108 | 28 - 150 |
| 1,2-Dibromoethane (EDB) | 40.0 | 34.8 | | ug/L | | 87 | 57 - 124 |
| Dichlorodifluoromethane | 40.0 | 42.8 | | ug/L | | 107 | 28 - 140 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45239/6**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 40.0 | 38.4 | | ug/L | | 96 | 82 - 116 |
| trans-1,2-Dichloroethene | 40.0 | 41.9 | | ug/L | | 105 | 78 - 120 |
| Isopropylbenzene | 40.0 | 41.9 | | ug/L | | 105 | 73 - 130 |
| Methyl acetate | 40.0 | 32.2 | | ug/L | | 81 | 34 - 127 |
| Methylcyclohexane | 40.0 | 43.0 | | ug/L | | 108 | 67 - 120 |
| Methyl tert-butyl ether | 40.0 | 29.0 | | ug/L | | 72 | 53 - 122 |
| Trichlorofluoromethane | 40.0 | 36.5 | | ug/L | | 91 | 14 - 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 41.5 | | ug/L | | 104 | 70 - 131 |
| 1,2-Dichlorobenzene | 40.0 | 40.4 | | ug/L | | 101 | 75 - 125 |
| 1,3-Dichlorobenzene | 40.0 | 40.1 | | ug/L | | 100 | 76 - 125 |
| 1,4-Dichlorobenzene | 40.0 | 38.7 | | ug/L | | 97 | 76 - 123 |
| 1,2,4-Trichlorobenzene | 40.0 | 37.6 | | ug/L | | 94 | 35 - 150 |
| Toluene | 40.0 | 43.8 | | ug/L | | 109 | 80 - 124 |
| o-Xylene | 40.0 | 41.9 | | ug/L | | 105 | 78 - 124 |
| m-Xylene & p-Xylene | 80.0 | 86.9 | | ug/L | | 109 | 78 - 124 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *106* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *89* | | *80 - 120* |

**Lab Sample ID: LCSD 180-45239/7**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 16.6 | J * | ug/L | | 41 | 10 - 141 | 43 | 32 |
| Dichlorobromomethane | 40.0 | 31.0 | | ug/L | | 77 | 71 - 119 | 6 | 20 |
| Benzene | 40.0 | 39.8 | | ug/L | | 100 | 80 - 120 | 3 | 20 |
| Bromoform | 40.0 | 29.5 | | ug/L | | 74 | 49 - 137 | 2 | 20 |
| Bromomethane | 40.0 | 32.8 | | ug/L | | 82 | 45 - 150 | 2 | 23 |
| 2-Butanone (MEK) | 40.0 | 24.4 | | ug/L | | 61 | 31 - 139 | 22 | 35 |
| Carbon disulfide | 40.0 | 43.0 | | ug/L | | 107 | 62 - 126 | 1 | 20 |
| Carbon tetrachloride | 40.0 | 35.5 | | ug/L | | 89 | 63 - 139 | 1 | 25 |
| Chlorobenzene | 40.0 | 41.2 | | ug/L | | 103 | 83 - 120 | 1 | 20 |
| Chloroethane | 40.0 | 43.6 | | ug/L | | 109 | 33 - 150 | 7 | 24 |
| Chloroform | 40.0 | 34.4 | | ug/L | | 86 | 77 - 119 | 3 | 20 |
| Chloromethane | 40.0 | 41.9 | | ug/L | | 105 | 49 - 133 | 3 | 20 |
| Chlorodibromomethane | 40.0 | 33.0 | | ug/L | | 83 | 64 - 124 | 4 | 20 |
| 1,1-Dichloroethane | 40.0 | 38.2 | | ug/L | | 96 | 77 - 122 | 0 | 22 |
| 1,2-Dichloroethane | 40.0 | 28.2 | | ug/L | | 71 | 63 - 140 | 6 | 25 |
| 1,1-Dichloroethene | 40.0 | 43.0 | | ug/L | | 107 | 69 - 127 | 1 | 20 |
| 1,2-Dichloropropane | 40.0 | 36.1 | | ug/L | | 90 | 75 - 114 | 5 | 20 |
| cis-1,3-Dichloropropene | 40.0 | 30.1 | | ug/L | | 75 | 74 - 123 | 6 | 20 |
| trans-1,3-Dichloropropene | 40.0 | 29.6 | | ug/L | | 74 | 63 - 122 | 3 | 20 |
| Ethylbenzene | 40.0 | 45.9 | | ug/L | | 115 | 79 - 124 | 4 | 25 |
| 2-Hexanone | 40.0 | 19.2 | * | ug/L | | 48 | 35 - 129 | 35 | 24 |
| Methylene Chloride | 40.0 | 35.2 | | ug/L | | 88 | 75 - 120 | 4 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45239/7**
**Matrix: Water**
**Analysis Batch: 45239**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | | | 40.0 | 28.0 | | ug/L | | 70 | 33 - 135 | 8 | 29 |
| Styrene | | | 40.0 | 39.7 | | ug/L | | 99 | 78 - 124 | 1 | 22 |
| 1,1,2,2-Tetrachloroethane | | | 40.0 | 36.8 | | ug/L | | 92 | 59 - 136 | 5 | 20 |
| Tetrachloroethene | | | 40.0 | 46.9 | | ug/L | | 117 | 78 - 126 | 6 | 25 |
| 1,1,1-Trichloroethane | | | 40.0 | 35.5 | | ug/L | | 89 | 69 - 134 | 2 | 24 |
| 1,1,2-Trichloroethane | | | 40.0 | 36.4 | | ug/L | | 91 | 75 - 126 | 3 | 23 |
| Trichloroethene | | | 40.0 | 40.3 | | ug/L | | 101 | 80 - 120 | 0 | 20 |
| Vinyl chloride | | | 40.0 | 40.7 | | ug/L | | 102 | 57 - 128 | 0 | 26 |
| Xylenes, Total | | | 120 | 133 | | ug/L | | 110 | 81 - 121 | NaN | 20 |
| Cyclohexane | | | 40.0 | 42.0 | | ug/L | | 105 | 69 - 124 | 3 | 20 |
| 1,2-Dibromo-3-Chloropropane | | | 40.0 | 46.6 | | ug/L | | 117 | 28 - 150 | 8 | 20 |
| 1,2-Dibromoethane (EDB) | | | 40.0 | 33.5 | | ug/L | | 84 | 57 - 124 | 4 | 20 |
| Dichlorodifluoromethane | | | 40.0 | 43.8 | | ug/L | | 109 | 28 - 140 | 2 | 20 |
| cis-1,2-Dichloroethene | | | 40.0 | 38.1 | | ug/L | | 95 | 82 - 116 | 1 | 20 |
| trans-1,2-Dichloroethene | | | 40.0 | 41.4 | | ug/L | | 103 | 78 - 120 | 1 | 20 |
| Isopropylbenzene | | | 40.0 | 43.5 | | ug/L | | 109 | 73 - 130 | 4 | 20 |
| Methyl acetate | | | 40.0 | 27.0 | | ug/L | | 67 | 34 - 127 | 18 | 29 |
| Methylcyclohexane | | | 40.0 | 42.1 | | ug/L | | 105 | 67 - 120 | 2 | 20 |
| Methyl tert-butyl ether | | | 40.0 | 27.2 | | ug/L | | 68 | 53 - 122 | 6 | 20 |
| Trichlorofluoromethane | | | 40.0 | 35.6 | | ug/L | | 89 | 14 - 150 | 3 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 40.0 | 40.2 | | ug/L | | 101 | 70 - 131 | 3 | 30 |
| 1,2-Dichlorobenzene | | | 40.0 | 42.3 | | ug/L | | 106 | 75 - 125 | 4 | 20 |
| 1,3-Dichlorobenzene | | | 40.0 | 39.9 | | ug/L | | 100 | 76 - 125 | 1 | 21 |
| 1,4-Dichlorobenzene | | | 40.0 | 39.8 | | ug/L | | 100 | 76 - 123 | 3 | 20 |
| 1,2,4-Trichlorobenzene | | | 40.0 | 57.3 | * | ug/L | | 143 | 35 - 150 | 42 | 30 |
| Toluene | | | 40.0 | 44.9 | | ug/L | | 112 | 80 - 124 | 3 | 20 |
| o-Xylene | | | 40.0 | 42.3 | | ug/L | | 106 | 78 - 124 | 1 | 22 |
| m-Xylene & p-Xylene | | | 80.0 | 90.2 | | ug/L | | 113 | 78 - 124 | 4 | 24 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *73* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *109* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *85* | | *80 - 120* |

**Lab Sample ID: MB 180-45280/4**
**Matrix: Water**
**Analysis Batch: 45280**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/16/12 13:55 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/16/12 13:55 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/16/12 13:55 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/16/12 13:55 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *128* | | *64 - 135* | | *08/16/12 13:55* | *1* |
| *Toluene-d8 (Surr)* | *112* | | *71 - 118* | | *08/16/12 13:55* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45280/4**
**Matrix: Water**
**Analysis Batch: 45280**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 118* | | *08/16/12 13:55* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *70 - 128* | | *08/16/12 13:55* | *1* |

**Lab Sample ID: LCS 180-45280/5**
**Matrix: Water**
**Analysis Batch: 45280**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 9.63 | | ug/L | | 96 | 80 - 120 |
| Ethylbenzene | 10.0 | 9.57 | | ug/L | | 96 | 72 - 126 |
| Toluene | 10.0 | 9.66 | | ug/L | | 97 | 80 - 123 |
| Xylenes, Total | 30.0 | 28.3 | | ug/L | | 94 | 76 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *100* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *100* | | *70 - 128* |

**Lab Sample ID: LCSD 180-45280/6**
**Matrix: Water**
**Analysis Batch: 45280**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 10.2 | | ug/L | | 102 | 80 - 120 | 6 | 32 |
| Ethylbenzene | 10.0 | 10.2 | | ug/L | | 102 | 72 - 126 | 7 | 33 |
| Toluene | 10.0 | 10.7 | | ug/L | | 107 | 80 - 123 | 10 | 35 |
| Xylenes, Total | 30.0 | 30.5 | | ug/L | | 102 | 76 - 128 | 7 | 32 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *99* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *94* | | *70 - 128* |

**Lab Sample ID: MB 180-45412/4**
**Matrix: Water**
**Analysis Batch: 45412**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/17/12 12:26 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/17/12 12:26 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/17/12 12:26 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/17/12 12:26 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *114* | | *64 - 135* | | *08/17/12 12:26* | *1* |
| *Toluene-d8 (Surr)* | *109* | | *71 - 118* | | *08/17/12 12:26* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45412/4**
**Matrix: Water**
**Analysis Batch: 45412**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 118 | | 08/17/12 12:26 | 1 |
| Dibromofluoromethane (Surr) | 108 | | 70 - 128 | | 08/17/12 12:26 | 1 |

**Lab Sample ID: LCS 180-45412/5**
**Matrix: Water**
**Analysis Batch: 45412**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 9.98 | | ug/L | | 100 | 80 - 120 |
| Ethylbenzene | 10.0 | 10.2 | | ug/L | | 102 | 72 - 126 |
| Toluene | 10.0 | 10.5 | | ug/L | | 105 | 80 - 123 |
| Xylenes, Total | 30.0 | 30.4 | | ug/L | | 101 | 76 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 64 - 135 |
| Toluene-d8 (Surr) | 108 | | 71 - 118 |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 118 |
| Dibromofluoromethane (Surr) | 100 | | 70 - 128 |

**Lab Sample ID: LCSD 180-45412/6**
**Matrix: Water**
**Analysis Batch: 45412**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 10.6 | | ug/L | | 106 | 80 - 120 | 6 | 32 |
| Ethylbenzene | 10.0 | 10.8 | | ug/L | | 108 | 72 - 126 | 5 | 33 |
| Toluene | 10.0 | 11.2 | | ug/L | | 112 | 80 - 123 | 6 | 35 |
| Xylenes, Total | 30.0 | 32.3 | | ug/L | | 108 | 76 - 128 | 6 | 32 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 64 - 135 |
| Toluene-d8 (Surr) | 109 | | 71 - 118 |
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 118 |
| Dibromofluoromethane (Surr) | 99 | | 70 - 128 |

**Lab Sample ID: MB 180-45487/4**
**Matrix: Water**
**Analysis Batch: 45487**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 13:38 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 13:38 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 13:38 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 13:38 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 64 - 135 | | 08/18/12 13:38 | 1 |
| Toluene-d8 (Surr) | 101 | | 71 - 118 | | 08/18/12 13:38 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45487/4**
**Matrix: Water**
**Analysis Batch: 45487**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 118 | | 08/18/12 13:38 | 1 |
| Dibromofluoromethane (Surr) | 116 | | 70 - 128 | | 08/18/12 13:38 | 1 |

**Lab Sample ID: LCS 180-45487/6**
**Matrix: Water**
**Analysis Batch: 45487**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 10.4 | | ug/L | | 104 | 80 - 120 |
| Ethylbenzene | 10.0 | 10.6 | | ug/L | | 106 | 72 - 126 |
| Toluene | 10.0 | 10.4 | | ug/L | | 104 | 80 - 123 |
| Xylenes, Total | 30.0 | 31.2 | | ug/L | | 104 | 76 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 64 - 135 |
| Toluene-d8 (Surr) | 103 | | 71 - 118 |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 118 |
| Dibromofluoromethane (Surr) | 107 | | 70 - 128 |

**Lab Sample ID: MB 180-45531/1-A**
**Matrix: Solid**
**Analysis Batch: 45532**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45531**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/20/12 03:07 | 08/20/12 05:07 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/20/12 03:07 | 08/20/12 05:07 | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 08/20/12 03:07 | 08/20/12 05:07 | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 08/20/12 03:07 | 08/20/12 05:07 | 1 |
| o-Xylene | ND | | 5.0 | 0.78 | ug/Kg | | 08/20/12 03:07 | 08/20/12 05:07 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.5 | ug/Kg | | 08/20/12 03:07 | 08/20/12 05:07 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 87 | | 52 - 124 | 08/20/12 03:07 | 08/20/12 05:07 | 1 |
| Toluene-d8 (Surr) | 97 | | 72 - 127 | 08/20/12 03:07 | 08/20/12 05:07 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 63 - 120 | 08/20/12 03:07 | 08/20/12 05:07 | 1 |
| Dibromofluoromethane (Surr) | 93 | | 68 - 121 | 08/20/12 03:07 | 08/20/12 05:07 | 1 |

**Lab Sample ID: LCS 180-45531/2-A**
**Matrix: Solid**
**Analysis Batch: 45532**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45531**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 40.0 | 34.4 | | ug/Kg | | 86 | 77 - 120 |
| Ethylbenzene | 40.0 | 37.1 | | ug/Kg | | 93 | 78 - 125 |
| Xylenes, Total | 120 | 110 | | ug/Kg | | 92 | 83 - 126 |
| Toluene | 40.0 | 34.9 | | ug/Kg | | 87 | 78 - 124 |
| o-Xylene | 40.0 | 35.9 | | ug/Kg | | 90 | 83 - 127 |
| m-Xylene & p-Xylene | 80.0 | 74.1 | | ug/Kg | | 93 | 75 - 126 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45531/2-A**
**Matrix: Solid**
**Analysis Batch: 45532**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45531**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *88* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *95* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *94* | | *68 - 121* |

**Lab Sample ID: MB 180-45852/1-A**
**Matrix: Solid**
**Analysis Batch: 45857**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45852**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.56 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Bromoform | ND | | 5.0 | 0.44 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Bromomethane | ND | | 5.0 | 0.74 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.88 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.51 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.45 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.76 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Chloroethane | ND | | 5.0 | 1.5 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Chloroform | ND | | 5.0 | 0.58 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Chloromethane | ND | | 5.0 | 0.85 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.71 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.58 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.85 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 1.3 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.54 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.68 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.60 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.69 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.67 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.65 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Styrene | ND | | 5.0 | 0.71 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.72 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.68 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.49 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.83 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Trichloroethene | ND | | 5.0 | 0.66 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.47 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Cyclohexane | ND | | 5.0 | 0.37 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.75 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.86 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.67 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.70 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.60 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.68 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45852/1-A**
**Matrix: Solid**
**Analysis Batch: 45857**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45852**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methyl acetate | ND | | 5.0 | 0.90 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.73 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.75 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.92 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.80 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.64 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.88 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| o-Xylene | ND | | 5.0 | 0.78 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.5 | ug/Kg | | 08/22/12 03:48 | 08/22/12 07:20 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *52 - 124* | *08/22/12 03:48* | *08/22/12 07:20* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *72 - 127* | *08/22/12 03:48* | *08/22/12 07:20* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *63 - 120* | *08/22/12 03:48* | *08/22/12 07:20* | *1* |
| *Dibromofluoromethane (Surr)* | *99* | | *68 - 121* | *08/22/12 03:48* | *08/22/12 07:20* | *1* |

**Lab Sample ID: LCS 180-45852/2-A**
**Matrix: Solid**
**Analysis Batch: 45857**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45852**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 21.2 | | ug/Kg | | 53 | 20 - 150 |
| Dichlorobromomethane | 40.0 | 34.7 | | ug/Kg | | 87 | 70 - 125 |
| Benzene | 40.0 | 32.5 | | ug/Kg | | 81 | 77 - 120 |
| Bromoform | 40.0 | 36.4 | | ug/Kg | | 91 | 53 - 140 |
| Bromomethane | 40.0 | 42.2 | | ug/Kg | | 105 | 25 - 150 |
| 2-Butanone (MEK) | 40.0 | 24.9 | | ug/Kg | | 62 | 35 - 149 |
| Carbon disulfide | 40.0 | 38.1 | | ug/Kg | | 95 | 50 - 127 |
| Carbon tetrachloride | 40.0 | 43.5 | | ug/Kg | | 109 | 69 - 122 |
| Chlorobenzene | 40.0 | 33.2 | | ug/Kg | | 83 | 79 - 120 |
| Chloroethane | 40.0 | 54.5 | | ug/Kg | | 136 | 22 - 150 |
| Chloroform | 40.0 | 34.0 | | ug/Kg | | 85 | 72 - 120 |
| Chloromethane | 40.0 | 35.4 | | ug/Kg | | 88 | 44 - 131 |
| Chlorodibromomethane | 40.0 | 36.8 | | ug/Kg | | 92 | 70 - 132 |
| 1,1-Dichloroethane | 40.0 | 32.5 | | ug/Kg | | 81 | 66 - 124 |
| 1,2-Dichloroethane | 40.0 | 30.6 | | ug/Kg | | 77 | 61 - 127 |
| 1,1-Dichloroethene | 40.0 | 36.5 | | ug/Kg | | 91 | 59 - 129 |
| 1,2-Dichloropropane | 40.0 | 31.5 | | ug/Kg | | 79 | 72 - 122 |
| cis-1,3-Dichloropropene | 40.0 | 36.2 | | ug/Kg | | 91 | 73 - 120 |
| trans-1,3-Dichloropropene | 40.0 | 36.4 | | ug/Kg | | 91 | 74 - 129 |
| Ethylbenzene | 40.0 | 33.9 | | ug/Kg | | 85 | 78 - 125 |
| 2-Hexanone | 40.0 | 23.3 | | ug/Kg | | 58 | 32 - 150 |
| Methylene Chloride | 40.0 | 31.7 | | ug/Kg | | 79 | 58 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 24.1 | | ug/Kg | | 60 | 44 - 148 |
| Styrene | 40.0 | 33.7 | | ug/Kg | | 84 | 83 - 129 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 27.5 | | ug/Kg | | 69 | 60 - 139 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45852/2-A**
**Matrix: Solid**
**Analysis Batch: 45857**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45852**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tetrachloroethene | | | 40.0 | 36.5 | | ug/Kg | | 91 | 78 - 129 | | |
| 1,1,1-Trichloroethane | | | 40.0 | 41.2 | | ug/Kg | | 103 | 67 - 126 | | |
| 1,1,2-Trichloroethane | | | 40.0 | 30.0 | | ug/Kg | | 75 | 70 - 128 | | |
| Trichloroethene | | | 40.0 | 35.9 | | ug/Kg | | 90 | 76 - 119 | | |
| Vinyl chloride | | | 40.0 | 36.1 | | ug/Kg | | 90 | 63 - 124 | | |
| Xylenes, Total | | | 120 | 104 | | ug/Kg | | 86 | 83 - 126 | | |
| Cyclohexane | | | 40.0 | 33.4 | | ug/Kg | | 84 | 64 - 130 | | |
| 1,2-Dibromo-3-Chloropropane | | | 40.0 | 33.2 | | ug/Kg | | 83 | 35 - 136 | | |
| 1,2-Dibromoethane (EDB) | | | 40.0 | 32.7 | | ug/Kg | | 82 | 70 - 131 | | |
| Dichlorodifluoromethane | | | 40.0 | 44.6 | | ug/Kg | | 111 | 25 - 150 | | |
| cis-1,2-Dichloroethene | | | 40.0 | 33.8 | | ug/Kg | | 85 | 80 - 118 | | |
| trans-1,2-Dichloroethene | | | 40.0 | 36.3 | | ug/Kg | | 91 | 77 - 121 | | |
| Isopropylbenzene | | | 40.0 | 34.5 | | ug/Kg | | 86 | 70 - 133 | | |
| Methyl acetate | | | 40.0 | 25.0 | | ug/Kg | | 63 | 27 - 142 | | |
| Methylcyclohexane | | | 40.0 | 33.9 | | ug/Kg | | 85 | 66 - 135 | | |
| Methyl tert-butyl ether | | | 40.0 | 35.7 | | ug/Kg | | 89 | 48 - 132 | | |
| Trichlorofluoromethane | | | 40.0 | 40.8 | | ug/Kg | | 102 | 20 - 150 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 40.0 | 36.1 | | ug/Kg | | 90 | 55 - 130 | | |
| 1,2-Dichlorobenzene | | | 40.0 | 30.9 | | ug/Kg | | 77 | 71 - 124 | | |
| 1,3-Dichlorobenzene | | | 40.0 | 32.5 | | ug/Kg | | 81 | 75 - 118 | | |
| 1,4-Dichlorobenzene | | | 40.0 | 31.8 | | ug/Kg | | 79 | 77 - 116 | | |
| 1,2,4-Trichlorobenzene | | | 40.0 | 27.3 | | ug/Kg | | 68 | 51 - 136 | | |
| Toluene | | | 40.0 | 32.2 | | ug/Kg | | 81 | 78 - 124 | | |
| o-Xylene | | | 40.0 | 33.3 | | ug/Kg | | 83 | 83 - 127 | | |
| m-Xylene & p-Xylene | | | 80.0 | 70.2 | | ug/Kg | | 88 | 75 - 126 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *88* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *94* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *68 - 121* |

**Lab Sample ID: LCSD 180-45852/3-A**
**Matrix: Solid**
**Analysis Batch: 45857**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45852**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | | | 40.0 | 25.7 | | ug/Kg | | 64 | 20 - 150 | 19 | 40 |
| Dichlorobromomethane | | | 40.0 | 37.7 | | ug/Kg | | 94 | 70 - 125 | 8 | 21 |
| Benzene | | | 40.0 | 36.1 | | ug/Kg | | 90 | 77 - 120 | 10 | 20 |
| Bromoform | | | 40.0 | 42.6 | | ug/Kg | | 107 | 53 - 140 | 16 | 23 |
| Bromomethane | | | 40.0 | 47.7 | | ug/Kg | | 119 | 25 - 150 | 12 | 40 |
| 2-Butanone (MEK) | | | 40.0 | 29.0 | | ug/Kg | | 72 | 35 - 149 | 15 | 36 |
| Carbon disulfide | | | 40.0 | 41.9 | | ug/Kg | | 105 | 50 - 127 | 10 | 23 |
| Carbon tetrachloride | | | 40.0 | 47.3 | | ug/Kg | | 118 | 69 - 122 | 8 | 22 |
| Chlorobenzene | | | 40.0 | 37.2 | | ug/Kg | | 93 | 79 - 120 | 11 | 20 |
| Chloroethane | | | 40.0 | 46.1 | | ug/Kg | | 115 | 22 - 150 | 17 | 40 |
| Chloroform | | | 40.0 | 36.6 | | ug/Kg | | 91 | 72 - 120 | 7 | 25 |
| Chloromethane | | | 40.0 | 40.1 | | ug/Kg | | 100 | 44 - 131 | 13 | 27 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45852/3-A**
**Matrix: Solid**
**Analysis Batch: 45857**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45852**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chlorodibromomethane | | | 40.0 | 39.9 | | ug/Kg | | 100 | 70 - 132 | 8 | 20 |
| 1,1-Dichloroethane | | | 40.0 | 35.0 | | ug/Kg | | 88 | 66 - 124 | 7 | 23 |
| 1,2-Dichloroethane | | | 40.0 | 32.3 | | ug/Kg | | 81 | 61 - 127 | 5 | 23 |
| 1,1-Dichloroethene | | | 40.0 | 40.6 | | ug/Kg | | 102 | 59 - 129 | 11 | 25 |
| 1,2-Dichloropropane | | | 40.0 | 32.1 | | ug/Kg | | 80 | 72 - 122 | 2 | 20 |
| cis-1,3-Dichloropropene | | | 40.0 | 39.0 | | ug/Kg | | 97 | 73 - 120 | 7 | 20 |
| trans-1,3-Dichloropropene | | | 40.0 | 38.0 | | ug/Kg | | 95 | 74 - 129 | 4 | 20 |
| Ethylbenzene | | | 40.0 | 38.0 | | ug/Kg | | 95 | 78 - 125 | 11 | 21 |
| 2-Hexanone | | | 40.0 | 32.5 | * | ug/Kg | | 81 | 32 - 150 | 33 | 32 |
| Methylene Chloride | | | 40.0 | 38.3 | | ug/Kg | | 96 | 58 - 127 | 19 | 28 |
| 4-Methyl-2-pentanone (MIBK) | | | 40.0 | 30.7 | | ug/Kg | | 77 | 44 - 148 | 24 | 30 |
| Styrene | | | 40.0 | 38.7 | | ug/Kg | | 97 | 83 - 129 | 14 | 20 |
| 1,1,2,2-Tetrachloroethane | | | 40.0 | 34.0 | | ug/Kg | | 85 | 60 - 139 | 21 | 24 |
| Tetrachloroethene | | | 40.0 | 38.3 | | ug/Kg | | 96 | 78 - 129 | 5 | 20 |
| 1,1,1-Trichloroethane | | | 40.0 | 44.1 | | ug/Kg | | 110 | 67 - 126 | 7 | 31 |
| 1,1,2-Trichloroethane | | | 40.0 | 33.2 | | ug/Kg | | 83 | 70 - 128 | 10 | 22 |
| Trichloroethene | | | 40.0 | 37.6 | | ug/Kg | | 94 | 76 - 119 | 5 | 21 |
| Vinyl chloride | | | 40.0 | 40.5 | | ug/Kg | | 101 | 63 - 124 | 12 | 27 |
| Xylenes, Total | | | 120 | 113 | | ug/Kg | | 94 | 83 - 126 | 9 | 20 |
| Cyclohexane | | | 40.0 | 36.2 | | ug/Kg | | 90 | 64 - 130 | 8 | 21 |
| 1,2-Dibromo-3-Chloropropane | | | 40.0 | 44.7 | | ug/Kg | | 112 | 35 - 136 | 30 | 40 |
| 1,2-Dibromoethane (EDB) | | | 40.0 | 37.5 | | ug/Kg | | 94 | 70 - 131 | 13 | 20 |
| Dichlorodifluoromethane | | | 40.0 | 46.3 | | ug/Kg | | 116 | 25 - 150 | 4 | 34 |
| cis-1,2-Dichloroethene | | | 40.0 | 37.9 | | ug/Kg | | 95 | 80 - 118 | 11 | 20 |
| trans-1,2-Dichloroethene | | | 40.0 | 38.3 | | ug/Kg | | 96 | 77 - 121 | 5 | 20 |
| Isopropylbenzene | | | 40.0 | 38.6 | | ug/Kg | | 96 | 70 - 133 | 11 | 22 |
| Methyl acetate | | | 40.0 | 31.0 | | ug/Kg | | 77 | 27 - 142 | 21 | 40 |
| Methylcyclohexane | | | 40.0 | 37.4 | | ug/Kg | | 94 | 66 - 135 | 10 | 23 |
| Methyl tert-butyl ether | | | 40.0 | 42.7 | | ug/Kg | | 107 | 48 - 132 | 18 | 36 |
| Trichlorofluoromethane | | | 40.0 | 45.0 | | ug/Kg | | 113 | 20 - 150 | 10 | 40 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 40.0 | 40.4 | | ug/Kg | | 101 | 55 - 130 | 11 | 37 |
| 1,2-Dichlorobenzene | | | 40.0 | 36.7 | | ug/Kg | | 92 | 71 - 124 | 17 | 22 |
| 1,3-Dichlorobenzene | | | 40.0 | 35.5 | | ug/Kg | | 89 | 75 - 118 | 9 | 20 |
| 1,4-Dichlorobenzene | | | 40.0 | 36.0 | | ug/Kg | | 90 | 77 - 116 | 13 | 20 |
| 1,2,4-Trichlorobenzene | | | 40.0 | 39.1 | | ug/Kg | | 98 | 51 - 136 | 35 | 40 |
| Toluene | | | 40.0 | 34.6 | | ug/Kg | | 87 | 78 - 124 | 7 | 21 |
| o-Xylene | | | 40.0 | 38.0 | | ug/Kg | | 95 | 83 - 127 | 13 | 20 |
| m-Xylene & p-Xylene | | | 80.0 | 75.3 | | ug/Kg | | 94 | 75 - 126 | 7 | 21 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *94* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *100* | | *68 - 121* |

## Method: 8260B - Volatile Organic Compounds by GC/MS

**Lab Sample ID: LCS 180-45410/6**
**Matrix: Solid**
**Analysis Batch: 45410**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.400 | 0.410 | | mg/L | | 102 | 80 - 120 |
| 2-Butanone (MEK) | 0.400 | 0.320 | | mg/L | | 80 | 31 - 139 |
| Carbon tetrachloride | 0.400 | 0.366 | | mg/L | | 91 | 63 - 139 |
| Chlorobenzene | 0.400 | 0.419 | | mg/L | | 105 | 83 - 120 |
| Chloroform | 0.400 | 0.369 | | mg/L | | 92 | 77 - 119 |
| 1,2-Dichloroethane | 0.400 | 0.334 | | mg/L | | 83 | 63 - 140 |
| 1,1-Dichloroethene | 0.400 | 0.424 | | mg/L | | 106 | 69 - 127 |
| Tetrachloroethene | 0.400 | 0.439 | | mg/L | | 110 | 78 - 126 |
| Trichloroethene | 0.400 | 0.409 | | mg/L | | 102 | 80 - 120 |
| Vinyl chloride | 0.400 | 0.396 | | mg/L | | 99 | 57 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *82* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *105* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *94* | | *80 - 120* |

**Lab Sample ID: LCSD 180-45410/7**
**Matrix: Solid**
**Analysis Batch: 45410**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.400 | 0.404 | | mg/L | | 101 | 80 - 120 | 1 | 20 |
| 2-Butanone (MEK) | 0.400 | 0.365 | | mg/L | | 91 | 31 - 139 | 13 | 35 |
| Carbon tetrachloride | 0.400 | 0.356 | | mg/L | | 89 | 63 - 139 | 3 | 25 |
| Chlorobenzene | 0.400 | 0.410 | | mg/L | | 103 | 83 - 120 | 2 | 20 |
| Chloroform | 0.400 | 0.368 | | mg/L | | 92 | 77 - 119 | 0 | 20 |
| 1,2-Dichloroethane | 0.400 | 0.324 | | mg/L | | 81 | 63 - 140 | 3 | 25 |
| 1,1-Dichloroethene | 0.400 | 0.410 | | mg/L | | 102 | 69 - 127 | 3 | 20 |
| Tetrachloroethene | 0.400 | 0.423 | | mg/L | | 106 | 78 - 126 | 4 | 25 |
| Trichloroethene | 0.400 | 0.407 | | mg/L | | 102 | 80 - 120 | 1 | 20 |
| Vinyl chloride | 0.400 | 0.385 | | mg/L | | 96 | 57 - 128 | 3 | 26 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *92* | | *80 - 120* |

**Lab Sample ID: LCS 180-45860/9**
**Matrix: Solid**
**Analysis Batch: 45860**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.400 | 0.400 | | mg/L | | 100 | 80 - 120 |
| 2-Butanone (MEK) | 0.400 | 0.441 | | mg/L | | 110 | 31 - 139 |
| Carbon tetrachloride | 0.400 | 0.490 | | mg/L | | 123 | 63 - 139 |
| Chlorobenzene | 0.400 | 0.420 | | mg/L | | 105 | 83 - 120 |
| Chloroform | 0.400 | 0.440 | | mg/L | | 110 | 77 - 119 |

## Method: 8260B - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 180-45860/9**
**Matrix: Solid**
**Analysis Batch: 45860**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | 0.400 | 0.496 | | mg/L | | 124 | 63 - 140 |
| 1,1-Dichloroethene | 0.400 | 0.386 | | mg/L | | 97 | 69 - 127 |
| Tetrachloroethene | 0.400 | 0.412 | | mg/L | | 103 | 78 - 126 |
| Trichloroethene | 0.400 | 0.447 | | mg/L | | 112 | 80 - 120 |
| Vinyl chloride | 0.400 | 0.312 | | mg/L | | 78 | 57 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *118* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *107* | | *80 - 120* |

**Lab Sample ID: LB 180-44981/12-A LB**
**Matrix: Solid**
**Analysis Batch: 45410**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.050 | 0.0099 | mg/L | | | 08/17/12 10:43 | 10 |
| 2-Butanone (MEK) | ND | | 0.050 | 0.011 | mg/L | | | 08/17/12 10:43 | 10 |
| Carbon tetrachloride | ND | | 0.050 | 0.011 | mg/L | | | 08/17/12 10:43 | 10 |
| Chlorobenzene | ND | | 0.050 | 0.0053 | mg/L | | | 08/17/12 10:43 | 10 |
| Chloroform | ND | | 0.050 | 0.010 | mg/L | | | 08/17/12 10:43 | 10 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.0096 | mg/L | | | 08/17/12 10:43 | 10 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.011 | mg/L | | | 08/17/12 10:43 | 10 |
| Tetrachloroethene | ND | | 0.050 | 0.0082 | mg/L | | | 08/17/12 10:43 | 10 |
| Trichloroethene | ND | | 0.050 | 0.0080 | mg/L | | | 08/17/12 10:43 | 10 |
| Vinyl chloride | ND | | 0.050 | 0.013 | mg/L | | | 08/17/12 10:43 | 10 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *81* | | *62 - 123* | | *08/17/12 10:43* | *10* |
| *Toluene-d8 (Surr)* | *113* | | *80 - 120* | | *08/17/12 10:43* | *10* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *75 - 120* | | *08/17/12 10:43* | *10* |
| *Dibromofluoromethane (Surr)* | *90* | | *80 - 120* | | *08/17/12 10:43* | *10* |

**Lab Sample ID: LB 180-45774/9-A LB**
**Matrix: Solid**
**Analysis Batch: 45860**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0050 | 0.00099 | mg/L | | | 08/22/12 06:54 | 1 |
| 2-Butanone (MEK) | ND | | 0.0050 | 0.0011 | mg/L | | | 08/22/12 06:54 | 1 |
| Carbon tetrachloride | ND | | 0.0050 | 0.0011 | mg/L | | | 08/22/12 06:54 | 1 |
| Chlorobenzene | ND | | 0.0050 | 0.00053 | mg/L | | | 08/22/12 06:54 | 1 |
| Chloroform | ND | | 0.0050 | 0.0010 | mg/L | | | 08/22/12 06:54 | 1 |
| 1,2-Dichloroethane | ND | | 0.0050 | 0.00096 | mg/L | | | 08/22/12 06:54 | 1 |
| 1,1-Dichloroethene | ND | | 0.0050 | 0.0011 | mg/L | | | 08/22/12 06:54 | 1 |
| Tetrachloroethene | ND | | 0.0050 | 0.00082 | mg/L | | | 08/22/12 06:54 | 1 |
| Trichloroethene | ND | | 0.0050 | 0.00080 | mg/L | | | 08/22/12 06:54 | 1 |
| Vinyl chloride | ND | | 0.0050 | 0.0013 | mg/L | | | 08/22/12 06:54 | 1 |

## Method: 8260B - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LB 180-45774/9-A LB**
**Matrix: Solid**
**Analysis Batch: 45860**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Surrogate | LB %Recovery | LB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *119* | | *62 - 123* | | *08/22/12 06:54* | *1* |
| *Toluene-d8 (Surr)* | *86* | | *80 - 120* | | *08/22/12 06:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *75 - 120* | | *08/22/12 06:54* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *80 - 120* | | *08/22/12 06:54* | *1* |

**Lab Sample ID: LB 180-45830/6-A LB**
**Matrix: Solid**
**Analysis Batch: 45860**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.0050 | 0.00099 | mg/L | | | 08/22/12 07:21 | 1 |
| 2-Butanone (MEK) | ND | | 0.0050 | 0.0011 | mg/L | | | 08/22/12 07:21 | 1 |
| Carbon tetrachloride | ND | | 0.0050 | 0.0011 | mg/L | | | 08/22/12 07:21 | 1 |
| Chlorobenzene | ND | | 0.0050 | 0.00053 | mg/L | | | 08/22/12 07:21 | 1 |
| Chloroform | ND | | 0.0050 | 0.0010 | mg/L | | | 08/22/12 07:21 | 1 |
| 1,2-Dichloroethane | ND | | 0.0050 | 0.00096 | mg/L | | | 08/22/12 07:21 | 1 |
| 1,1-Dichloroethene | ND | | 0.0050 | 0.0011 | mg/L | | | 08/22/12 07:21 | 1 |
| Tetrachloroethene | ND | | 0.0050 | 0.00082 | mg/L | | | 08/22/12 07:21 | 1 |
| Trichloroethene | ND | | 0.0050 | 0.00080 | mg/L | | | 08/22/12 07:21 | 1 |
| Vinyl chloride | ND | | 0.0050 | 0.0013 | mg/L | | | 08/22/12 07:21 | 1 |

| Surrogate | LB %Recovery | LB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *116* | | *62 - 123* | | *08/22/12 07:21* | *1* |
| *Toluene-d8 (Surr)* | *84* | | *80 - 120* | | *08/22/12 07:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *75 - 120* | | *08/22/12 07:21* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *80 - 120* | | *08/22/12 07:21* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-45197/1-A**
**Matrix: Water**
**Analysis Batch: 45461**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45197**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 2.0 | 0.14 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Acetophenone | ND | | 10 | 0.80 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Acenaphthylene | ND | | 2.0 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Anthracene | ND | | 2.0 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Benzo[a]anthracene | ND | | 2.0 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Benzo[a]pyrene | ND | | 2.0 | 0.13 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Benzo[b]fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Benzo[g,h,i]perylene | ND | | 2.0 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Benzo[k]fluoranthene | ND | | 2.0 | 0.55 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Bis(2-chloroethyl)ether | ND | | 2.0 | 0.25 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 10 | 0.58 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 2.0 | 0.20 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 20 | 13 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 10 | 0.64 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 1.4 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45197/1-A**
**Matrix: Water**
**Analysis Batch: 45461**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45197**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Carbazole | ND | | 2.0 | 0.16 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 4-Chloroaniline | ND | | 10 | 0.89 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2-Chloronaphthalene | ND | | 2.0 | 0.15 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | 0.50 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Chrysene | ND | | 2.0 | 0.14 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Dibenz(a,h)anthracene | ND | | 2.0 | 0.16 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Dibenzofuran | ND | | 10 | 0.62 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 1.2 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 10 | 1.1 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Diethyl phthalate | ND | | 10 | 1.5 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.77 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2,4-Dinitrotoluene | ND | | 10 | 0.54 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2,6-Dinitrotoluene | ND | | 10 | 0.80 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 2.1 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Fluorene | ND | | 2.0 | 0.22 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Hexachlorobenzene | ND | | 2.0 | 0.18 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | 0.17 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.52 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Hexachloroethane | ND | | 10 | 0.63 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 2.0 | 0.20 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Isophorone | ND | | 10 | 0.64 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2-Methylnaphthalene | ND | | 2.0 | 0.12 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Naphthalene | ND | | 2.0 | 0.14 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2-Nitroaniline | ND | | 50 | 3.5 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 3-Nitroaniline | ND | | 50 | 3.2 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 4-Nitroaniline | ND | | 50 | 1.7 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Nitrobenzene | ND | | 20 | 0.84 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 2.0 | 0.31 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| N-Nitrosodiphenylamine | ND | | 10 | 0.85 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Phenanthrene | ND | | 2.0 | 0.43 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Pyrene | ND | | 2.0 | 0.16 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 4-Chloro-3-methylphenol | ND | | 10 | 0.75 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2-Chlorophenol | ND | | 10 | 1.7 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2-Methylphenol | ND | | 10 | 0.86 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2,4-Dichlorophenol | ND | | 2.0 | 0.33 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2,4-Dimethylphenol | ND | | 10 | 0.85 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2,4-Dinitrophenol | ND | | 50 | 6.1 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 50 | 2.2 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2-Nitrophenol | ND | | 10 | 1.7 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 4-Nitrophenol | ND | | 50 | 6.5 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Pentachlorophenol | ND | | 10 | 0.66 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Phenol | ND | | 2.0 | 0.58 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 1.5 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2,4,6-Trichlorophenol | ND | | 10 | 1.7 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 1,1'-Biphenyl | ND | | 10 | 0.42 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Caprolactam | ND | | 50 | 12 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Benzaldehyde | ND | | 10 | 1.5 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Atrazine | ND | | 10 | 0.89 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Methylphenol, 3 & 4 | ND | | 10 | 0.90 | ug/L | | 08/16/12 08:52 | 08/17/12 21:46 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45197/1-A**
**Matrix: Water**
**Analysis Batch: 45461**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45197**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Nitrobenzene-d5 | 68 | | 37 - 104 | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2-Fluorobiphenyl | 65 | | 35 - 108 | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Terphenyl-d14 | 76 | | 25 - 130 | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| Phenol-d5 | 75 | | 30 - 102 | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2-Fluorophenol | 74 | | 26 - 100 | 08/16/12 08:52 | 08/17/12 21:46 | 1 |
| 2,4,6-Tribromophenol | 69 | | 33 - 122 | 08/16/12 08:52 | 08/17/12 21:46 | 1 |

**Lab Sample ID: LCS 180-45197/2-A**
**Matrix: Water**
**Analysis Batch: 45461**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45197**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 200 | 135 | | ug/L | | 67 | 39 - 106 |
| Acenaphthylene | 200 | 148 | | ug/L | | 74 | 40 - 113 |
| Anthracene | 200 | 143 | | ug/L | | 72 | 37 - 108 |
| Benzo[a]anthracene | 200 | 136 | | ug/L | | 68 | 40 - 103 |
| Benzo[a]pyrene | 200 | 151 | | ug/L | | 76 | 37 - 105 |
| Benzo[b]fluoranthene | 200 | 123 | | ug/L | | 61 | 35 - 100 |
| Benzo[g,h,i]perylene | 200 | 151 | | ug/L | | 76 | 31 - 118 |
| Benzo[k]fluoranthene | 200 | 147 | | ug/L | | 74 | 37 - 108 |
| Bis(2-chloroethyl)ether | 200 | 125 | | ug/L | | 63 | 34 - 96 |
| Bis(2-chloroethoxy)methane | 200 | 124 | | ug/L | | 62 | 36 - 101 |
| bis (2-chloroisopropyl) ether | 200 | 115 | | ug/L | | 58 | 30 - 100 |
| Bis(2-ethylhexyl) phthalate | 200 | 147 | | ug/L | | 74 | 35 - 112 |
| 4-Bromophenyl phenyl ether | 200 | 144 | | ug/L | | 72 | 38 - 108 |
| Butyl benzyl phthalate | 200 | 151 | | ug/L | | 75 | 34 - 110 |
| Carbazole | 200 | 135 | | ug/L | | 68 | 35 - 113 |
| 4-Chloroaniline | 200 | 135 | | ug/L | | 67 | 26 - 99 |
| 2-Chloronaphthalene | 200 | 132 | | ug/L | | 66 | 37 - 102 |
| 4-Chlorophenyl phenyl ether | 200 | 137 | | ug/L | | 69 | 39 - 107 |
| Chrysene | 200 | 144 | | ug/L | | 72 | 39 - 103 |
| Dibenz(a,h)anthracene | 200 | 152 | | ug/L | | 76 | 32 - 117 |
| Dibenzofuran | 200 | 129 | | ug/L | | 64 | 37 - 107 |
| Di-n-butyl phthalate | 200 | 141 | | ug/L | | 70 | 36 - 113 |
| 3,3'-Dichlorobenzidine | 200 | 142 | | ug/L | | 71 | 11 - 106 |
| Diethyl phthalate | 200 | 138 | | ug/L | | 69 | 39 - 112 |
| Dimethyl phthalate | 200 | 137 | | ug/L | | 69 | 40 - 110 |
| 2,4-Dinitrotoluene | 200 | 148 | | ug/L | | 74 | 41 - 117 |
| 2,6-Dinitrotoluene | 200 | 146 | | ug/L | | 73 | 42 - 118 |
| Di-n-octyl phthalate | 200 | 142 | | ug/L | | 71 | 27 - 118 |
| Fluoranthene | 200 | 135 | | ug/L | | 68 | 35 - 111 |
| Fluorene | 200 | 134 | | ug/L | | 67 | 39 - 107 |
| Hexachlorobenzene | 200 | 145 | | ug/L | | 73 | 35 - 106 |
| Hexachlorobutadiene | 200 | 125 | | ug/L | | 62 | 30 - 103 |
| Hexachlorocyclopentadiene | 200 | 148 | | ug/L | | 74 | 19 - 116 |
| Hexachloroethane | 200 | 124 | | ug/L | | 62 | 27 - 94 |
| Indeno[1,2,3-cd]pyrene | 200 | 151 | | ug/L | | 75 | 32 - 116 |
| Isophorone | 200 | 139 | | ug/L | | 69 | 39 - 108 |
| 2-Methylnaphthalene | 200 | 127 | | ug/L | | 63 | 36 - 101 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45197/2-A**
**Matrix: Water**
**Analysis Batch: 45461**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45197**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | | | 200 | 128 | | ug/L | | 64 | 35 - 98 | | |
| 2-Nitroaniline | | | 200 | 136 | | ug/L | | 68 | 37 - 114 | | |
| 3-Nitroaniline | | | 200 | 142 | | ug/L | | 71 | 32 - 117 | | |
| 4-Nitroaniline | | | 200 | 145 | | ug/L | | 72 | 32 - 117 | | |
| Nitrobenzene | | | 200 | 126 | | ug/L | | 63 | 37 - 103 | | |
| N-Nitrosodi-n-propylamine | | | 200 | 124 | | ug/L | | 62 | 37 - 106 | | |
| N-Nitrosodiphenylamine | | | 200 | 149 | | ug/L | | 74 | 34 - 108 | | |
| Phenanthrene | | | 200 | 133 | | ug/L | | 67 | 34 - 107 | | |
| Pyrene | | | 200 | 136 | | ug/L | | 68 | 36 - 115 | | |
| 4-Chloro-3-methylphenol | | | 200 | 125 | | ug/L | | 63 | 40 - 107 | | |
| 2-Chlorophenol | | | 200 | 127 | | ug/L | | 63 | 34 - 100 | | |
| 2-Methylphenol | | | 200 | 123 | | ug/L | | 61 | 34 - 101 | | |
| 2,4-Dichlorophenol | | | 200 | 135 | | ug/L | | 67 | 34 - 106 | | |
| 2,4-Dimethylphenol | | | 200 | 124 | | ug/L | | 62 | 34 - 98 | | |
| 2,4-Dinitrophenol | | | 200 | 123 | | ug/L | | 62 | 3 - 125 | | |
| 4,6-Dinitro-2-methylphenol | | | 200 | 144 | | ug/L | | 72 | 24 - 121 | | |
| 2-Nitrophenol | | | 200 | 143 | | ug/L | | 71 | 33 - 108 | | |
| 4-Nitrophenol | | | 200 | 122 | | ug/L | | 61 | 29 - 120 | | |
| Pentachlorophenol | | | 200 | 127 | | ug/L | | 64 | 10 - 118 | | |
| Phenol | | | 200 | 120 | | ug/L | | 60 | 35 - 98 | | |
| 2,4,5-Trichlorophenol | | | 200 | 136 | | ug/L | | 68 | 31 - 111 | | |
| 2,4,6-Trichlorophenol | | | 200 | 136 | | ug/L | | 68 | 34 - 110 | | |
| Methylphenol, 3 & 4 | | | 400 | 265 | | ug/L | | 66 | 34 - 104 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *67* | | *37 - 104* |
| *2-Fluorobiphenyl* | *65* | | *35 - 108* |
| *Terphenyl-d14* | *77* | | *25 - 130* |
| *Phenol-d5* | *66* | | *30 - 102* |
| *2-Fluorophenol* | *66* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *78* | | *33 - 122* |

**Lab Sample ID: LCSD 180-45197/3-A**
**Matrix: Water**
**Analysis Batch: 45461**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45197**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 200 | 137 | | ug/L | | 69 | 39 - 106 | 2 | 32 |
| Acenaphthylene | | | 200 | 150 | | ug/L | | 75 | 40 - 113 | 2 | 33 |
| Anthracene | | | 200 | 143 | | ug/L | | 72 | 37 - 108 | 0 | 40 |
| Benzo[a]anthracene | | | 200 | 140 | | ug/L | | 70 | 40 - 103 | 3 | 33 |
| Benzo[a]pyrene | | | 200 | 155 | | ug/L | | 78 | 37 - 105 | 3 | 35 |
| Benzo[b]fluoranthene | | | 200 | 131 | | ug/L | | 66 | 35 - 100 | 7 | 44 |
| Benzo[g,h,i]perylene | | | 200 | 159 | | ug/L | | 79 | 31 - 118 | 5 | 45 |
| Benzo[k]fluoranthene | | | 200 | 144 | | ug/L | | 72 | 37 - 108 | 2 | 42 |
| Bis(2-chloroethyl)ether | | | 200 | 131 | | ug/L | | 65 | 34 - 96 | 4 | 34 |
| Bis(2-chloroethoxy)methane | | | 200 | 123 | | ug/L | | 62 | 36 - 101 | 1 | 35 |
| bis (2-chloroisopropyl) ether | | | 200 | 121 | | ug/L | | 60 | 30 - 100 | 5 | 38 |
| Bis(2-ethylhexyl) phthalate | | | 200 | 154 | | ug/L | | 77 | 35 - 112 | 4 | 34 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45197/3-A**
**Matrix: Water**
**Analysis Batch: 45461**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45197**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 4-Bromophenyl phenyl ether | 200 | 147 | | ug/L | | 73 | 38 - 108 | 2 | 40 |
| Butyl benzyl phthalate | 200 | 156 | | ug/L | | 78 | 34 - 110 | 3 | 35 |
| Carbazole | 200 | 138 | | ug/L | | 69 | 35 - 113 | 2 | 32 |
| 4-Chloroaniline | 200 | 135 | | ug/L | | 68 | 26 - 99 | 1 | 55 |
| 2-Chloronaphthalene | 200 | 138 | | ug/L | | 69 | 37 - 102 | 5 | 34 |
| 4-Chlorophenyl phenyl ether | 200 | 142 | | ug/L | | 71 | 39 - 107 | 3 | 34 |
| Chrysene | 200 | 146 | | ug/L | | 73 | 39 - 103 | 1 | 38 |
| Dibenz(a,h)anthracene | 200 | 160 | | ug/L | | 80 | 32 - 117 | 5 | 43 |
| Dibenzofuran | 200 | 133 | | ug/L | | 66 | 37 - 107 | 3 | 32 |
| Di-n-butyl phthalate | 200 | 149 | | ug/L | | 74 | 36 - 113 | 6 | 39 |
| 3,3'-Dichlorobenzidine | 200 | 150 | | ug/L | | 75 | 11 - 106 | 5 | 56 |
| Diethyl phthalate | 200 | 136 | | ug/L | | 68 | 39 - 112 | 1 | 32 |
| Dimethyl phthalate | 200 | 139 | | ug/L | | 69 | 40 - 110 | 1 | 33 |
| 2,4-Dinitrotoluene | 200 | 151 | | ug/L | | 76 | 41 - 117 | 2 | 32 |
| 2,6-Dinitrotoluene | 200 | 152 | | ug/L | | 76 | 42 - 118 | 4 | 33 |
| Di-n-octyl phthalate | 200 | 146 | | ug/L | | 73 | 27 - 118 | 2 | 36 |
| Fluoranthene | 200 | 141 | | ug/L | | 70 | 35 - 111 | 4 | 43 |
| Fluorene | 200 | 140 | | ug/L | | 70 | 39 - 107 | 4 | 33 |
| Hexachlorobenzene | 200 | 149 | | ug/L | | 74 | 35 - 106 | 2 | 36 |
| Hexachlorobutadiene | 200 | 126 | | ug/L | | 63 | 30 - 103 | 1 | 41 |
| Hexachlorocyclopentadiene | 200 | 156 | | ug/L | | 78 | 19 - 116 | 6 | 57 |
| Hexachloroethane | 200 | 130 | | ug/L | | 65 | 27 - 94 | 5 | 43 |
| Indeno[1,2,3-cd]pyrene | 200 | 158 | | ug/L | | 79 | 32 - 116 | 5 | 45 |
| Isophorone | 200 | 139 | | ug/L | | 70 | 39 - 108 | 0 | 36 |
| 2-Methylnaphthalene | 200 | 129 | | ug/L | | 64 | 36 - 101 | 1 | 35 |
| Naphthalene | 200 | 128 | | ug/L | | 64 | 35 - 98 | 1 | 39 |
| 2-Nitroaniline | 200 | 141 | | ug/L | | 70 | 37 - 114 | 3 | 33 |
| 3-Nitroaniline | 200 | 149 | | ug/L | | 75 | 32 - 117 | 5 | 46 |
| 4-Nitroaniline | 200 | 153 | | ug/L | | 76 | 32 - 117 | 5 | 39 |
| Nitrobenzene | 200 | 128 | | ug/L | | 64 | 37 - 103 | 2 | 34 |
| N-Nitrosodi-n-propylamine | 200 | 129 | | ug/L | | 65 | 37 - 106 | 4 | 36 |
| N-Nitrosodiphenylamine | 200 | 150 | | ug/L | | 75 | 34 - 108 | 1 | 42 |
| Phenanthrene | 200 | 136 | | ug/L | | 68 | 34 - 107 | 2 | 34 |
| Pyrene | 200 | 141 | | ug/L | | 70 | 36 - 115 | 3 | 38 |
| 4-Chloro-3-methylphenol | 200 | 126 | | ug/L | | 63 | 40 - 107 | 1 | 32 |
| 2-Chlorophenol | 200 | 133 | | ug/L | | 66 | 34 - 100 | 5 | 31 |
| 2-Methylphenol | 200 | 130 | | ug/L | | 65 | 34 - 101 | 5 | 34 |
| 2,4-Dichlorophenol | 200 | 132 | | ug/L | | 66 | 34 - 106 | 2 | 33 |
| 2,4-Dimethylphenol | 200 | 124 | | ug/L | | 62 | 34 - 98 | 0 | 34 |
| 2,4-Dinitrophenol | 200 | 133 | | ug/L | | 67 | 3 - 125 | 8 | 62 |
| 4,6-Dinitro-2-methylphenol | 200 | 151 | | ug/L | | 76 | 24 - 121 | 5 | 50 |
| 2-Nitrophenol | 200 | 145 | | ug/L | | 72 | 33 - 108 | 1 | 41 |
| 4-Nitrophenol | 200 | 131 | | ug/L | | 65 | 29 - 120 | 7 | 39 |
| Pentachlorophenol | 200 | 126 | | ug/L | | 63 | 10 - 118 | 1 | 49 |
| Phenol | 200 | 126 | | ug/L | | 63 | 35 - 98 | 5 | 35 |
| 2,4,5-Trichlorophenol | 200 | 135 | | ug/L | | 68 | 31 - 111 | 1 | 32 |
| 2,4,6-Trichlorophenol | 200 | 140 | | ug/L | | 70 | 34 - 110 | 3 | 35 |
| Methylphenol, 3 & 4 | 400 | 274 | | ug/L | | 69 | 34 - 104 | 3 | 34 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45197/3-A**
**Matrix: Water**
**Analysis Batch: 45461**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45197**

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *67* | | *37 - 104* |
| *2-Fluorobiphenyl* | *68* | | *35 - 108* |
| *Terphenyl-d14* | *77* | | *25 - 130* |
| *Phenol-d5* | *69* | | *30 - 102* |
| *2-Fluorophenol* | *68* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *81* | | *33 - 122* |

**Lab Sample ID: MB 180-45992/1-A**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 67 | 6.4 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Acetophenone | ND | | 330 | 27 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Acenaphthylene | ND | | 67 | 7.6 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Anthracene | ND | | 67 | 6.5 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Benzo[a]anthracene | ND | | 67 | 8.4 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Benzo[a]pyrene | ND | | 67 | 6.7 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Benzo[b]fluoranthene | ND | | 67 | 10 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Benzo[g,h,i]perylene | ND | | 67 | 6.6 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Benzo[k]fluoranthene | ND | | 67 | 13 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Bis(2-chloroethyl)ether | ND | | 67 | 9.0 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 330 | 22 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 67 | 7.2 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 670 | 54 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 330 | 29 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Butyl benzyl phthalate | ND | | 330 | 46 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Carbazole | ND | | 67 | 6.1 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 4-Chloroaniline | ND | | 330 | 27 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2-Chloronaphthalene | ND | | 67 | 7.0 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 330 | 37 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Chrysene | ND | | 67 | 7.9 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Dibenz(a,h)anthracene | ND | | 67 | 7.4 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Dibenzofuran | ND | | 330 | 33 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Di-n-butyl phthalate | ND | | 330 | 42 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 330 | 35 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Diethyl phthalate | ND | | 330 | 36 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Dimethyl phthalate | ND | | 330 | 36 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2,4-Dinitrotoluene | ND | | 330 | 27 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2,6-Dinitrotoluene | ND | | 330 | 34 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Di-n-octyl phthalate | ND | | 330 | 35 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Fluoranthene | ND | | 67 | 7.1 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Fluorene | ND | | 67 | 8.8 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Hexachlorobenzene | ND | | 67 | 7.1 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Hexachlorobutadiene | ND | | 67 | 7.5 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Hexachlorocyclopentadiene | ND | | 330 | 36 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Hexachloroethane | ND | | 330 | 24 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 67 | 6.9 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Isophorone | ND | | 330 | 25 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45992/1-A**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | ND | | 67 | 6.0 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Naphthalene | ND | | 67 | 5.7 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2-Nitroaniline | ND | | 1700 | 150 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 3-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 4-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Nitrobenzene | ND | | 670 | 28 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 67 | 7.8 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| N-Nitrosodiphenylamine | ND | | 330 | 31 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Phenanthrene | ND | | 67 | 11 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Pyrene | ND | | 67 | 6.7 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 4-Chloro-3-methylphenol | ND | | 330 | 31 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2-Chlorophenol | ND | | 330 | 27 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2-Methylphenol | ND | | 330 | 23 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2,4-Dichlorophenol | ND | | 67 | 6.7 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2,4-Dimethylphenol | ND | | 330 | 52 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2,4-Dinitrophenol | ND | | 1700 | 400 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1700 | 130 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2-Nitrophenol | ND | | 330 | 37 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 4-Nitrophenol | ND | | 1700 | 120 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Pentachlorophenol | ND | | 330 | 30 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Phenol | ND | | 67 | 7.9 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2,4,5-Trichlorophenol | ND | | 330 | 36 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 2,4,6-Trichlorophenol | ND | | 330 | 50 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| 1,1'-Biphenyl | ND | | 330 | 30 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Caprolactam | ND | | 1700 | 250 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Benzaldehyde | ND | | 330 | 50 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Atrazine | ND | | 330 | 32 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |
| Methylphenol, 3 & 4 | ND | | 330 | 33 | ug/Kg | | 08/23/12 03:00 | 08/24/12 12:28 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *79* | | *25 - 104* | *08/23/12 03:00* | *08/24/12 12:28* | *1* |
| *2-Fluorobiphenyl* | *74* | | *35 - 105* | *08/23/12 03:00* | *08/24/12 12:28* | *1* |
| *Terphenyl-d14* | *79* | | *25 - 127* | *08/23/12 03:00* | *08/24/12 12:28* | *1* |
| *Phenol-d5* | *81* | | *25 - 105* | *08/23/12 03:00* | *08/24/12 12:28* | *1* |
| *2-Fluorophenol* | *82* | | *39 - 103* | *08/23/12 03:00* | *08/24/12 12:28* | *1* |
| *2,4,6-Tribromophenol* | *92* | | *35 - 124* | *08/23/12 03:00* | *08/24/12 12:28* | *1* |

**Lab Sample ID: LCS 180-45992/2-A**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 6670 | 5090 | | ug/Kg | | 76 | 47 - 104 |
| Acenaphthylene | 6670 | 5640 | | ug/Kg | | 85 | 49 - 114 |
| Anthracene | 6670 | 5070 | | ug/Kg | | 76 | 45 - 112 |
| Benzo[a]anthracene | 6670 | 4810 | | ug/Kg | | 72 | 47 - 110 |
| Benzo[a]pyrene | 6670 | 5340 | | ug/Kg | | 80 | 47 - 112 |
| Benzo[b]fluoranthene | 6670 | 4860 | | ug/Kg | | 73 | 41 - 107 |
| Benzo[g,h,i]perylene | 6670 | 4910 | | ug/Kg | | 74 | 38 - 126 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45992/2-A**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzo[k]fluoranthene | 6670 | 4930 | | ug/Kg | | 74 | 44 - 115 |
| Bis(2-chloroethyl)ether | 6670 | 4750 | | ug/Kg | | 71 | 38 - 99 |
| Bis(2-chloroethoxy)methane | 6670 | 4770 | | ug/Kg | | 72 | 44 - 101 |
| bis (2-chloroisopropyl) ether | 6670 | 4550 | | ug/Kg | | 68 | 36 - 101 |
| Bis(2-ethylhexyl) phthalate | 6670 | 5490 | | ug/Kg | | 82 | 40 - 122 |
| 4-Bromophenyl phenyl ether | 6670 | 5310 | | ug/Kg | | 80 | 47 - 110 |
| Butyl benzyl phthalate | 6670 | 5420 | | ug/Kg | | 81 | 41 - 118 |
| Carbazole | 6670 | 4940 | | ug/Kg | | 74 | 45 - 114 |
| 4-Chloroaniline | 6670 | 5240 | | ug/Kg | | 79 | 25 - 108 |
| 2-Chloronaphthalene | 6670 | 5060 | | ug/Kg | | 76 | 46 - 101 |
| 4-Chlorophenyl phenyl ether | 6670 | 5210 | | ug/Kg | | 78 | 47 - 109 |
| Chrysene | 6670 | 5250 | | ug/Kg | | 79 | 46 - 111 |
| Dibenz(a,h)anthracene | 6670 | 5200 | | ug/Kg | | 78 | 39 - 127 |
| Dibenzofuran | 6670 | 4900 | | ug/Kg | | 73 | 46 - 104 |
| Di-n-butyl phthalate | 6670 | 5360 | | ug/Kg | | 80 | 43 - 121 |
| 3,3'-Dichlorobenzidine | 6670 | 5160 | | ug/Kg | | 77 | 19 - 122 |
| Diethyl phthalate | 6670 | 5190 | | ug/Kg | | 78 | 47 - 115 |
| Dimethyl phthalate | 6670 | 5250 | | ug/Kg | | 79 | 49 - 111 |
| 2,4-Dinitrotoluene | 6670 | 5510 | | ug/Kg | | 83 | 45 - 124 |
| 2,6-Dinitrotoluene | 6670 | 5570 | | ug/Kg | | 83 | 50 - 122 |
| Di-n-octyl phthalate | 6670 | 5610 | | ug/Kg | | 84 | 33 - 129 |
| Fluoranthene | 6670 | 5030 | | ug/Kg | | 75 | 40 - 120 |
| Fluorene | 6670 | 5240 | | ug/Kg | | 79 | 46 - 109 |
| Hexachlorobenzene | 6670 | 5270 | | ug/Kg | | 79 | 47 - 108 |
| Hexachlorobutadiene | 6670 | 4820 | | ug/Kg | | 72 | 43 - 107 |
| Hexachlorocyclopentadiene | 6670 | 6670 | | ug/Kg | | 100 | 23 - 129 |
| Hexachloroethane | 6670 | 4510 | | ug/Kg | | 68 | 37 - 97 |
| Indeno[1,2,3-cd]pyrene | 6670 | 5040 | | ug/Kg | | 76 | 41 - 125 |
| Isophorone | 6670 | 5370 | | ug/Kg | | 81 | 47 - 110 |
| 2-Methylnaphthalene | 6670 | 4790 | | ug/Kg | | 72 | 45 - 100 |
| Naphthalene | 6670 | 4850 | | ug/Kg | | 73 | 43 - 100 |
| 2-Nitroaniline | 6670 | 5560 | | ug/Kg | | 83 | 45 - 117 |
| 3-Nitroaniline | 6670 | 5390 | | ug/Kg | | 81 | 34 - 122 |
| 4-Nitroaniline | 6670 | 5660 | | ug/Kg | | 85 | 38 - 123 |
| Nitrobenzene | 6670 | 5000 | | ug/Kg | | 75 | 43 - 104 |
| N-Nitrosodi-n-propylamine | 6670 | 5010 | | ug/Kg | | 75 | 42 - 107 |
| N-Nitrosodiphenylamine | 6670 | 5540 | | ug/Kg | | 83 | 44 - 111 |
| Phenanthrene | 6670 | 4930 | | ug/Kg | | 74 | 43 - 108 |
| Pyrene | 6670 | 5040 | | ug/Kg | | 76 | 41 - 115 |
| 4-Chloro-3-methylphenol | 6670 | 4820 | | ug/Kg | | 72 | 47 - 109 |
| 2-Chlorophenol | 6670 | 5040 | | ug/Kg | | 76 | 40 - 101 |
| 2-Methylphenol | 6670 | 5130 | | ug/Kg | | 77 | 40 - 104 |
| 2,4-Dichlorophenol | 6670 | 5310 | | ug/Kg | | 80 | 47 - 105 |
| 2,4-Dimethylphenol | 6670 | 5000 | | ug/Kg | | 75 | 44 - 105 |
| 2,4-Dinitrophenol | 6670 | 5920 | | ug/Kg | | 89 | 10 - 146 |
| 4,6-Dinitro-2-methylphenol | 6670 | 5470 | | ug/Kg | | 82 | 24 - 134 |
| 2-Nitrophenol | 6670 | 5470 | | ug/Kg | | 82 | 46 - 106 |
| 4-Nitrophenol | 6670 | 5950 | | ug/Kg | | 89 | 36 - 127 |
| Pentachlorophenol | 6670 | 5500 | | ug/Kg | | 82 | 17 - 122 |
| Phenol | 6670 | 4990 | | ug/Kg | | 75 | 41 - 102 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45992/2-A**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | | | 6670 | 5480 | | ug/Kg | | 82 | 48 - 108 | | |
| 2,4,6-Trichlorophenol | | | 6670 | 5330 | | ug/Kg | | 80 | 50 - 106 | | |
| Methylphenol, 3 & 4 | | | 13300 | 11000 | | ug/Kg | | 82 | 42 - 105 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *79* | | *25 - 104* |
| *2-Fluorobiphenyl* | *78* | | *35 - 105* |
| *Terphenyl-d14* | *82* | | *25 - 127* |
| *Phenol-d5* | *81* | | *25 - 105* |
| *2-Fluorophenol* | *83* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *89* | | *35 - 124* |

**Lab Sample ID: 180-13351-1 MS**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: 44W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 7820 | 6240 | | ug/Kg | ☼ | 80 | 47 - 104 | | |
| Acenaphthylene | ND | | 7820 | 6950 | | ug/Kg | ☼ | 89 | 49 - 114 | | |
| Anthracene | ND | | 7820 | 6490 | | ug/Kg | ☼ | 83 | 45 - 112 | | |
| Benzo[a]anthracene | 47 | J | 7820 | 6180 | | ug/Kg | ☼ | 79 | 47 - 110 | | |
| Benzo[a]pyrene | 49 | J | 7820 | 6400 | | ug/Kg | ☼ | 81 | 47 - 112 | | |
| Benzo[b]fluoranthene | 66 | J | 7820 | 5260 | | ug/Kg | ☼ | 66 | 41 - 107 | | |
| Benzo[g,h,i]perylene | 42 | J | 7820 | 7590 | | ug/Kg | ☼ | 97 | 38 - 126 | | |
| Benzo[k]fluoranthene | ND | | 7820 | 5490 | | ug/Kg | ☼ | 70 | 44 - 115 | | |
| Bis(2-chloroethyl)ether | ND | | 7820 | 5740 | | ug/Kg | ☼ | 73 | 38 - 99 | | |
| Bis(2-chloroethoxy)methane | ND | | 7820 | 5940 | | ug/Kg | ☼ | 76 | 44 - 101 | | |
| bis (2-chloroisopropyl) ether | ND | | 7820 | 5380 | | ug/Kg | ☼ | 69 | 36 - 101 | | |
| Bis(2-ethylhexyl) phthalate | ND | | 7820 | 6940 | | ug/Kg | ☼ | 89 | 40 - 122 | | |
| 4-Bromophenyl phenyl ether | ND | | 7820 | 7040 | | ug/Kg | ☼ | 90 | 47 - 110 | | |
| Butyl benzyl phthalate | ND | | 7820 | 6710 | | ug/Kg | ☼ | 86 | 41 - 118 | | |
| Carbazole | ND | | 7820 | 6400 | | ug/Kg | ☼ | 82 | 45 - 114 | | |
| 4-Chloroaniline | ND | | 7820 | 6020 | | ug/Kg | ☼ | 77 | 25 - 108 | | |
| 2-Chloronaphthalene | ND | | 7820 | 6110 | | ug/Kg | ☼ | 78 | 46 - 101 | | |
| 4-Chlorophenyl phenyl ether | ND | | 7820 | 6400 | | ug/Kg | ☼ | 82 | 47 - 109 | | |
| Chrysene | 49 | J | 7820 | 6160 | | ug/Kg | ☼ | 78 | 46 - 111 | | |
| Dibenz(a,h)anthracene | ND | | 7820 | 7480 | | ug/Kg | ☼ | 96 | 39 - 127 | | |
| Dibenzofuran | ND | | 7820 | 6050 | | ug/Kg | ☼ | 77 | 46 - 104 | | |
| Di-n-butyl phthalate | ND | | 7820 | 7230 | | ug/Kg | ☼ | 92 | 43 - 121 | | |
| 3,3'-Dichlorobenzidine | ND | | 7820 | 6560 | | ug/Kg | ☼ | 84 | 19 - 122 | | |
| Diethyl phthalate | ND | | 7820 | 6820 | | ug/Kg | ☼ | 87 | 47 - 115 | | |
| Dimethyl phthalate | ND | | 7820 | 6710 | | ug/Kg | ☼ | 86 | 49 - 111 | | |
| 2,4-Dinitrotoluene | ND | | 7820 | 7180 | | ug/Kg | ☼ | 92 | 45 - 124 | | |
| 2,6-Dinitrotoluene | ND | | 7820 | 7140 | | ug/Kg | ☼ | 91 | 50 - 122 | | |
| Di-n-octyl phthalate | ND | | 7820 | 5530 | | ug/Kg | ☼ | 71 | 33 - 129 | | |
| Fluoranthene | 63 | J | 7820 | 6500 | | ug/Kg | ☼ | 82 | 40 - 120 | | |
| Fluorene | ND | | 7820 | 6510 | | ug/Kg | ☼ | 83 | 46 - 109 | | |
| Hexachlorobenzene | ND | | 7820 | 6720 | | ug/Kg | ☼ | 86 | 47 - 108 | | |
| Hexachlorobutadiene | ND | | 7820 | 6310 | | ug/Kg | ☼ | 81 | 43 - 107 | | |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 180-13351-1 MS**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: 44W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | ND | | 7820 | 5680 | | ug/Kg | ☼ | 73 | 23 - 129 |
| Hexachloroethane | ND | | 7820 | 5560 | | ug/Kg | ☼ | 71 | 37 - 97 |
| Indeno[1,2,3-cd]pyrene | 45 | J | 7820 | 7410 | | ug/Kg | ☼ | 94 | 41 - 125 |
| Isophorone | ND | | 7820 | 6830 | | ug/Kg | ☼ | 87 | 47 - 110 |
| 2-Methylnaphthalene | ND | | 7820 | 5880 | | ug/Kg | ☼ | 75 | 45 - 100 |
| Naphthalene | ND | | 7820 | 6090 | | ug/Kg | ☼ | 78 | 43 - 100 |
| 2-Nitroaniline | ND | | 7820 | 7140 | | ug/Kg | ☼ | 91 | 45 - 117 |
| 3-Nitroaniline | ND | | 7820 | 7090 | | ug/Kg | ☼ | 91 | 34 - 122 |
| 4-Nitroaniline | ND | | 7820 | 7190 | | ug/Kg | ☼ | 92 | 38 - 123 |
| Nitrobenzene | ND | | 7820 | 6330 | | ug/Kg | ☼ | 81 | 43 - 104 |
| N-Nitrosodi-n-propylamine | ND | | 7820 | 5850 | | ug/Kg | ☼ | 75 | 42 - 107 |
| N-Nitrosodiphenylamine | ND | | 7820 | 7460 | | ug/Kg | ☼ | 95 | 44 - 111 |
| Phenanthrene | 15 | J | 7820 | 6270 | | ug/Kg | ☼ | 80 | 43 - 108 |
| Pyrene | 60 | J | 7820 | 5730 | | ug/Kg | ☼ | 73 | 41 - 115 |
| 4-Chloro-3-methylphenol | ND | | 7820 | 6310 | | ug/Kg | ☼ | 81 | 47 - 109 |
| 2-Chlorophenol | ND | | 7820 | 6030 | | ug/Kg | ☼ | 77 | 40 - 101 |
| 2-Methylphenol | ND | | 7820 | 5820 | | ug/Kg | ☼ | 74 | 40 - 104 |
| 2,4-Dichlorophenol | ND | | 7820 | 6470 | | ug/Kg | ☼ | 83 | 47 - 105 |
| 2,4-Dimethylphenol | ND | | 7820 | 6230 | | ug/Kg | ☼ | 80 | 44 - 105 |
| 2,4-Dinitrophenol | ND | | 7820 | 6750 | | ug/Kg | ☼ | 86 | 10 - 146 |
| 4,6-Dinitro-2-methylphenol | ND | | 7820 | 7180 | | ug/Kg | ☼ | 92 | 24 - 134 |
| 2-Nitrophenol | ND | | 7820 | 6840 | | ug/Kg | ☼ | 88 | 46 - 106 |
| 4-Nitrophenol | ND | | 7820 | 8520 | | ug/Kg | ☼ | 109 | 36 - 127 |
| Pentachlorophenol | ND | | 7820 | 6660 | | ug/Kg | ☼ | 85 | 17 - 122 |
| Phenol | ND | | 7820 | 5920 | | ug/Kg | ☼ | 76 | 41 - 102 |
| 2,4,5-Trichlorophenol | ND | | 7820 | 6790 | | ug/Kg | ☼ | 87 | 48 - 108 |
| 2,4,6-Trichlorophenol | ND | | 7820 | 6760 | | ug/Kg | ☼ | 87 | 50 - 106 |
| Methylphenol, 3 & 4 | ND | | 15600 | 12900 | | ug/Kg | ☼ | 82 | 42 - 105 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *86* | | *25 - 104* |
| *2-Fluorobiphenyl* | *80* | | *35 - 105* |
| *Terphenyl-d14* | *75* | | *25 - 127* |
| *Phenol-d5* | *82* | | *25 - 105* |
| *2-Fluorophenol* | *87* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *100* | | *35 - 124* |

**Lab Sample ID: 180-13351-1 MSD**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: 44W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 7760 | 6380 | | ug/Kg | ☼ | 82 | 47 - 104 | 2 | 40 |
| Acenaphthylene | ND | | 7760 | 7040 | | ug/Kg | ☼ | 91 | 49 - 114 | 1 | 38 |
| Anthracene | ND | | 7760 | 6510 | | ug/Kg | ☼ | 84 | 45 - 112 | 0 | 42 |
| Benzo[a]anthracene | 47 | J | 7760 | 6190 | | ug/Kg | ☼ | 79 | 47 - 110 | 0 | 40 |
| Benzo[a]pyrene | 49 | J | 7760 | 6490 | | ug/Kg | ☼ | 83 | 47 - 112 | 1 | 42 |
| Benzo[b]fluoranthene | 66 | J | 7760 | 5060 | | ug/Kg | ☼ | 64 | 41 - 107 | 4 | 53 |
| Benzo[g,h,i]perylene | 42 | J | 7760 | 7710 | | ug/Kg | ☼ | 99 | 38 - 126 | 1 | 43 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 180-13351-1 MSD**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: 44W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzo[k]fluoranthene | ND | | 7760 | 5770 | | ug/Kg | ☼ | 74 | 44 - 115 | 5 | 44 |
| Bis(2-chloroethyl)ether | ND | | 7760 | 5890 | | ug/Kg | ☼ | 76 | 38 - 99 | 3 | 43 |
| Bis(2-chloroethoxy)methane | ND | | 7760 | 5910 | | ug/Kg | ☼ | 76 | 44 - 101 | 1 | 36 |
| bis (2-chloroisopropyl) ether | ND | | 7760 | 5500 | | ug/Kg | ☼ | 71 | 36 - 101 | 2 | 41 |
| Bis(2-ethylhexyl) phthalate | ND | | 7760 | 6790 | | ug/Kg | ☼ | 87 | 40 - 122 | 2 | 41 |
| 4-Bromophenyl phenyl ether | ND | | 7760 | 6980 | | ug/Kg | ☼ | 90 | 47 - 110 | 1 | 46 |
| Butyl benzyl phthalate | ND | | 7760 | 6650 | | ug/Kg | ☼ | 86 | 41 - 118 | 1 | 41 |
| Carbazole | ND | | 7760 | 6500 | | ug/Kg | ☼ | 84 | 45 - 114 | 2 | 36 |
| 4-Chloroaniline | ND | | 7760 | 5900 | | ug/Kg | ☼ | 76 | 25 - 108 | 2 | 36 |
| 2-Chloronaphthalene | ND | | 7760 | 6280 | | ug/Kg | ☼ | 81 | 46 - 101 | 3 | 40 |
| 4-Chlorophenyl phenyl ether | ND | | 7760 | 6590 | | ug/Kg | ☼ | 85 | 47 - 109 | 3 | 39 |
| Chrysene | 49 | J | 7760 | 6290 | | ug/Kg | ☼ | 80 | 46 - 111 | 2 | 39 |
| Dibenz(a,h)anthracene | ND | | 7760 | 7530 | | ug/Kg | ☼ | 97 | 39 - 127 | 1 | 45 |
| Dibenzofuran | ND | | 7760 | 6150 | | ug/Kg | ☼ | 79 | 46 - 104 | 2 | 38 |
| Di-n-butyl phthalate | ND | | 7760 | 7240 | | ug/Kg | ☼ | 93 | 43 - 121 | 0 | 38 |
| 3,3'-Dichlorobenzidine | ND | | 7760 | 6560 | | ug/Kg | ☼ | 84 | 19 - 122 | 0 | 40 |
| Diethyl phthalate | ND | | 7760 | 6850 | | ug/Kg | ☼ | 88 | 47 - 115 | 0 | 38 |
| Dimethyl phthalate | ND | | 7760 | 6850 | | ug/Kg | ☼ | 88 | 49 - 111 | 2 | 37 |
| 2,4-Dinitrotoluene | ND | | 7760 | 7340 | | ug/Kg | ☼ | 95 | 45 - 124 | 2 | 41 |
| 2,6-Dinitrotoluene | ND | | 7760 | 7290 | | ug/Kg | ☼ | 94 | 50 - 122 | 2 | 40 |
| Di-n-octyl phthalate | ND | | 7760 | 5500 | | ug/Kg | ☼ | 71 | 33 - 129 | 1 | 41 |
| Fluoranthene | 63 | J | 7760 | 6480 | | ug/Kg | ☼ | 83 | 40 - 120 | 0 | 36 |
| Fluorene | ND | | 7760 | 6540 | | ug/Kg | ☼ | 84 | 46 - 109 | 0 | 40 |
| Hexachlorobenzene | ND | | 7760 | 6610 | | ug/Kg | ☼ | 85 | 47 - 108 | 2 | 43 |
| Hexachlorobutadiene | ND | | 7760 | 6250 | | ug/Kg | ☼ | 80 | 43 - 107 | 1 | 39 |
| Hexachlorocyclopentadiene | ND | | 7760 | 6060 | | ug/Kg | ☼ | 78 | 23 - 129 | 7 | 49 |
| Hexachloroethane | ND | | 7760 | 5630 | | ug/Kg | ☼ | 72 | 37 - 97 | 1 | 48 |
| Indeno[1,2,3-cd]pyrene | 45 | J | 7760 | 7440 | | ug/Kg | ☼ | 95 | 41 - 125 | 0 | 47 |
| Isophorone | ND | | 7760 | 6790 | | ug/Kg | ☼ | 87 | 47 - 110 | 1 | 37 |
| 2-Methylnaphthalene | ND | | 7760 | 5890 | | ug/Kg | ☼ | 76 | 45 - 100 | 0 | 40 |
| Naphthalene | ND | | 7760 | 5990 | | ug/Kg | ☼ | 77 | 43 - 100 | 2 | 32 |
| 2-Nitroaniline | ND | | 7760 | 7180 | | ug/Kg | ☼ | 93 | 45 - 117 | 1 | 42 |
| 3-Nitroaniline | ND | | 7760 | 7020 | | ug/Kg | ☼ | 90 | 34 - 122 | 1 | 39 |
| 4-Nitroaniline | ND | | 7760 | 7270 | | ug/Kg | ☼ | 94 | 38 - 123 | 1 | 40 |
| Nitrobenzene | ND | | 7760 | 6370 | | ug/Kg | ☼ | 82 | 43 - 104 | 1 | 33 |
| N-Nitrosodi-n-propylamine | ND | | 7760 | 5990 | | ug/Kg | ☼ | 77 | 42 - 107 | 2 | 43 |
| N-Nitrosodiphenylamine | ND | | 7760 | 7380 | | ug/Kg | ☼ | 95 | 44 - 111 | 1 | 40 |
| Phenanthrene | 15 | J | 7760 | 6150 | | ug/Kg | ☼ | 79 | 43 - 108 | 2 | 39 |
| Pyrene | 60 | J | 7760 | 5610 | | ug/Kg | ☼ | 71 | 41 - 115 | 2 | 43 |
| 4-Chloro-3-methylphenol | ND | | 7760 | 6090 | | ug/Kg | ☼ | 78 | 47 - 109 | 4 | 36 |
| 2-Chlorophenol | ND | | 7760 | 6060 | | ug/Kg | ☼ | 78 | 40 - 101 | 0 | 42 |
| 2-Methylphenol | ND | | 7760 | 5890 | | ug/Kg | ☼ | 76 | 40 - 104 | 1 | 41 |
| 2,4-Dichlorophenol | ND | | 7760 | 6460 | | ug/Kg | ☼ | 83 | 47 - 105 | 0 | 35 |
| 2,4-Dimethylphenol | ND | | 7760 | 6180 | | ug/Kg | ☼ | 80 | 44 - 105 | 1 | 49 |
| 2,4-Dinitrophenol | ND | | 7760 | 6840 | | ug/Kg | ☼ | 88 | 10 - 146 | 1 | 83 |
| 4,6-Dinitro-2-methylphenol | ND | | 7760 | 7040 | | ug/Kg | ☼ | 91 | 24 - 134 | 2 | 87 |
| 2-Nitrophenol | ND | | 7760 | 6880 | | ug/Kg | ☼ | 89 | 46 - 106 | 1 | 39 |
| 4-Nitrophenol | ND | | 7760 | 8980 | | ug/Kg | ☼ | 116 | 36 - 127 | 5 | 43 |
| Pentachlorophenol | ND | | 7760 | 6460 | | ug/Kg | ☼ | 83 | 17 - 122 | 3 | 52 |
| Phenol | ND | | 7760 | 5970 | | ug/Kg | ☼ | 77 | 41 - 102 | 1 | 39 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 180-13351-1 MSD**
**Matrix: Solid**
**Analysis Batch: 46300**

**Client Sample ID: 44W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 45992**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4,5-Trichlorophenol | ND | | 7760 | 7070 | | ug/Kg | ☼ | 91 | 48 - 108 | 4 | 44 |
| 2,4,6-Trichlorophenol | ND | | 7760 | 6760 | | ug/Kg | ☼ | 87 | 50 - 106 | 0 | 42 |
| Methylphenol, 3 & 4 | ND | | 15500 | 13000 | | ug/Kg | ☼ | 83 | 42 - 105 | 1 | 43 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *85* | | *25 - 104* |
| *2-Fluorobiphenyl* | *82* | | *35 - 105* |
| *Terphenyl-d14* | *75* | | *25 - 127* |
| *Phenol-d5* | *82* | | *25 - 105* |
| *2-Fluorophenol* | *89* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *97* | | *35 - 124* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

**Lab Sample ID: MB 180-45004/1-A**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45004**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/14/12 14:00 | 08/15/12 16:15 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *74* | | *39 - 115* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *2-Fluorobiphenyl* | *61* | | *35 - 115* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *Terphenyl-d14* | *70* | | *30 - 143* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *Phenol-d5* | *79* | | *30 - 118* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *2-Fluorophenol* | *74* | | *20 - 110* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |
| *2,4,6-Tribromophenol* | *58* | | *19 - 138* | *08/14/12 14:00* | *08/15/12 16:15* | *1* |

**Lab Sample ID: LCS 180-45004/2-A**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45004**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.250 | 0.186 | | mg/L | | 75 | 37 - 115 |
| Pyridine | 0.250 | 0.200 | | mg/L | | 80 | 22 - 105 |
| 2,4-Dinitrotoluene | 0.250 | 0.138 | | mg/L | | 55 | 40 - 115 |
| Hexachlorobenzene | 0.250 | 0.151 | | mg/L | | 60 | 45 - 115 |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45004/2-A**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45004**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene | 0.250 | 0.177 | | mg/L | | 71 | 42 - 115 |
| Hexachloroethane | 0.250 | 0.183 | | mg/L | | 73 | 25 - 106 |
| Nitrobenzene | 0.250 | 0.192 | | mg/L | | 77 | 40 - 115 |
| 2-Methylphenol | 0.250 | 0.185 | | mg/L | | 74 | 43 - 115 |
| Pentachlorophenol | 0.250 | 0.103 | J | mg/L | | 41 | 16 - 140 |
| 2,4,5-Trichlorophenol | 0.250 | 0.150 | | mg/L | | 60 | 35 - 115 |
| 2,4,6-Trichlorophenol | 0.250 | 0.152 | | mg/L | | 61 | 40 - 115 |
| Methylphenol, 3 & 4 | 0.500 | 0.409 | | mg/L | | 82 | 30 - 121 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *82* | | *39 - 115* |
| *2-Fluorobiphenyl* | *68* | | *35 - 115* |
| *Terphenyl-d14* | *80* | | *30 - 143* |
| *Phenol-d5* | *88* | | *30 - 118* |
| *2-Fluorophenol* | *81* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *71* | | *19 - 138* |

**Lab Sample ID: LCSD 180-45004/3-A**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45004**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.250 | 0.189 | | mg/L | | 76 | 37 - 115 | 1 | 35 |
| Pyridine | 0.250 | 0.202 | | mg/L | | 81 | 22 - 105 | 1 | 40 |
| 2,4-Dinitrotoluene | 0.250 | 0.145 | | mg/L | | 58 | 40 - 115 | 4 | 42 |
| Hexachlorobenzene | 0.250 | 0.147 | | mg/L | | 59 | 45 - 115 | 3 | 22 |
| Hexachlorobutadiene | 0.250 | 0.179 | | mg/L | | 72 | 42 - 115 | 1 | 28 |
| Hexachloroethane | 0.250 | 0.180 | | mg/L | | 72 | 25 - 106 | 1 | 38 |
| Nitrobenzene | 0.250 | 0.201 | | mg/L | | 80 | 40 - 115 | 4 | 26 |
| 2-Methylphenol | 0.250 | 0.163 | | mg/L | | 65 | 43 - 115 | 13 | 47 |
| Pentachlorophenol | 0.250 | 0.0940 | J | mg/L | | 38 | 16 - 140 | 9 | 40 |
| 2,4,5-Trichlorophenol | 0.250 | 0.168 | | mg/L | | 67 | 35 - 115 | 11 | 40 |
| 2,4,6-Trichlorophenol | 0.250 | 0.154 | | mg/L | | 61 | 40 - 115 | 1 | 37 |
| Methylphenol, 3 & 4 | 0.500 | 0.404 | | mg/L | | 81 | 30 - 121 | 1 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *83* | | *39 - 115* |
| *2-Fluorobiphenyl* | *71* | | *35 - 115* |
| *Terphenyl-d14* | *78* | | *30 - 143* |
| *Phenol-d5* | *88* | | *30 - 118* |
| *2-Fluorophenol* | *80* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *67* | | *19 - 138* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: MB 180-45793/1-A**
**Matrix: Solid**
**Analysis Batch: 46007**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45793**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *80* | | *39 - 115* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *2-Fluorobiphenyl* | *69* | | *35 - 115* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *Terphenyl-d14* | *70* | | *30 - 143* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *Phenol-d5* | *86* | | *30 - 118* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *2-Fluorophenol* | *79* | | *20 - 110* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *2,4,6-Tribromophenol* | *70* | | *19 - 138* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |

**Lab Sample ID: LCS 180-45793/2-A**
**Matrix: Solid**
**Analysis Batch: 46007**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45793**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.251 | 0.163 | | mg/L | | 65 | 37 - 115 |
| Pyridine | 0.251 | 0.172 | | mg/L | | 69 | 22 - 105 |
| 2,4-Dinitrotoluene | 0.251 | 0.118 | | mg/L | | 47 | 40 - 115 |
| Hexachlorobenzene | 0.251 | 0.125 | | mg/L | | 50 | 45 - 115 |
| Hexachlorobutadiene | 0.251 | 0.151 | | mg/L | | 60 | 42 - 115 |
| Hexachloroethane | 0.251 | 0.155 | | mg/L | | 62 | 25 - 106 |
| Nitrobenzene | 0.251 | 0.174 | | mg/L | | 69 | 40 - 115 |
| 2-Methylphenol | 0.251 | 0.170 | | mg/L | | 68 | 43 - 115 |
| Pentachlorophenol | 0.253 | 0.102 | J | mg/L | | 40 | 16 - 140 |
| 2,4,5-Trichlorophenol | 0.251 | 0.144 | | mg/L | | 57 | 35 - 115 |
| 2,4,6-Trichlorophenol | 0.251 | 0.149 | | mg/L | | 59 | 40 - 115 |
| Methylphenol, 3 & 4 | 0.501 | 0.356 | | mg/L | | 71 | 30 - 121 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *71* | | *39 - 115* |
| *2-Fluorobiphenyl* | *61* | | *35 - 115* |
| *Terphenyl-d14* | *67* | | *30 - 143* |
| *Phenol-d5* | *80* | | *30 - 118* |
| *2-Fluorophenol* | *72* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *61* | | *19 - 138* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45793/3-A**
**Matrix: Solid**
**Analysis Batch: 46007**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45793**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | | | 0.251 | 0.176 | | mg/L | | 70 | 37 - 115 | 8 | 35 |
| Pyridine | | | 0.251 | 0.205 | | mg/L | | 82 | 22 - 105 | 17 | 40 |
| 2,4-Dinitrotoluene | | | 0.251 | 0.120 | | mg/L | | 48 | 40 - 115 | 1 | 42 |
| Hexachlorobenzene | | | 0.251 | 0.145 | | mg/L | | 58 | 45 - 115 | 15 | 22 |
| Hexachlorobutadiene | | | 0.251 | 0.154 | | mg/L | | 61 | 42 - 115 | 2 | 28 |
| Hexachloroethane | | | 0.251 | 0.194 | | mg/L | | 77 | 25 - 106 | 22 | 38 |
| Nitrobenzene | | | 0.251 | 0.176 | | mg/L | | 70 | 40 - 115 | 1 | 26 |
| 2-Methylphenol | | | 0.251 | 0.180 | | mg/L | | 72 | 43 - 115 | 6 | 47 |
| Pentachlorophenol | | | 0.253 | 0.107 | J | mg/L | | 42 | 16 - 140 | 5 | 40 |
| 2,4,5-Trichlorophenol | | | 0.251 | 0.152 | | mg/L | | 61 | 35 - 115 | 6 | 40 |
| 2,4,6-Trichlorophenol | | | 0.251 | 0.150 | | mg/L | | 60 | 40 - 115 | 1 | 37 |
| Methylphenol, 3 & 4 | | | 0.501 | 0.397 | | mg/L | | 79 | 30 - 121 | 11 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *72* | | *39 - 115* |
| *2-Fluorobiphenyl* | *62* | | *35 - 115* |
| *Terphenyl-d14* | *74* | | *30 - 143* |
| *Phenol-d5* | *82* | | *30 - 118* |
| *2-Fluorophenol* | *80* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *66* | | *19 - 138* |

**Lab Sample ID: LB 180-44820/27-B LB**
**Matrix: Solid**
**Analysis Batch: 45181**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45004**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/14/12 14:00 | 08/15/12 16:36 | 1 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *81* | | *39 - 115* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *2-Fluorobiphenyl* | *67* | | *35 - 115* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *Terphenyl-d14* | *77* | | *30 - 143* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *Phenol-d5* | *85* | | *30 - 118* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *2-Fluorophenol* | *78* | | *20 - 110* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |
| *2,4,6-Tribromophenol* | *65* | | *19 - 138* | *08/14/12 14:00* | *08/15/12 16:36* | *1* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LB 180-45619/25-B LB**
**Matrix: Solid**
**Analysis Batch: 46007**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45793**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *74* | | *39 - 115* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *2-Fluorobiphenyl* | *58* | | *35 - 115* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *Terphenyl-d14* | *69* | | *30 - 143* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *Phenol-d5* | *77* | | *30 - 118* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *2-Fluorophenol* | *69* | | *20 - 110* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *2,4,6-Tribromophenol* | *67* | | *19 - 138* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-247175/8**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/20/12 10:57 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/20/12 10:57* | *1* |

**Lab Sample ID: LCS 680-247175/9**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.198 | | mg/L | | 99 | 70 - 148 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247175/2**
**Matrix: Water**
**Analysis Batch: 247175**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.206 | | mg/L | | 103 | 70 - 148 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 130* |

**Lab Sample ID: MB 680-247420/23**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/21/12 19:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/21/12 19:05* | *1* |

**Lab Sample ID: MB 680-247420/3**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 5.0 | 0.38 | mg/Kg | | | 08/21/12 19:25 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* | | *08/21/12 19:25* | *20* |

**Lab Sample ID: LCS 680-247420/5**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.892 | | mg/Kg | | 89 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247420/6**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.996 | | mg/Kg | | 100 | 64 - 133 | 11 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247420/7**
**Matrix: Solid**
**Analysis Batch: 247420**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 32.6 | | mg/Kg | | 82 | 64 - 133 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* |

**Lab Sample ID: MB 680-247547/3**
**Matrix: Solid**
**Analysis Batch: 247547**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/22/12 12:13 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *85* | | *70 - 131* | | *08/22/12 12:13* | *1* |

**Lab Sample ID: MB 680-247547/4**
**Matrix: Solid**
**Analysis Batch: 247547**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/22/12 12:32 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *94* | | *70 - 131* | | *08/22/12 12:32* | *1* |

**Lab Sample ID: LCS 680-247547/5**
**Matrix: Solid**
**Analysis Batch: 247547**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.848 | | mg/Kg | | 85 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *92* | | *70 - 131* |

**Lab Sample ID: LCS 680-247547/6**
**Matrix: Solid**
**Analysis Batch: 247547**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 2.00 | 1.58 | | mg/Kg | | 79 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247547/7**
**Matrix: Solid**
**Analysis Batch: 247547**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.867 | | mg/Kg | | 87 | 64 - 133 | 2 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *89* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247547/8**
**Matrix: Solid**
**Analysis Batch: 247547**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 2.00 | 1.53 | | mg/Kg | | 76 | 64 - 133 | 3 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *89* | | *70 - 131* |

**Lab Sample ID: MB 680-247591/3**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 10:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/23/12 10:56* | *1* |

**Lab Sample ID: LCS 680-247591/4**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.203 | | mg/L | | 102 | 70 - 148 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 130* |

**Lab Sample ID: LCSD 680-247591/5**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.210 | | mg/L | | 105 | 70 - 148 | 3 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *101* | | *70 - 130* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: MB 680-247709/4**
**Matrix: Solid**
**Analysis Batch: 247709**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/24/12 13:06 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *85* | | *70 - 131* | | *08/24/12 13:06* | *1* |

**Lab Sample ID: LCS 680-247709/5**
**Matrix: Solid**
**Analysis Batch: 247709**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.867 | | mg/Kg | | 87 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247709/6**
**Matrix: Solid**
**Analysis Batch: 247709**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.916 | | mg/Kg | | 92 | 64 - 133 | 5 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *92* | | *70 - 131* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-246741/9-A**
**Matrix: Water**
**Analysis Batch: 247518**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246741**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 08/15/12 15:19 | 08/22/12 11:26 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *92* | | *62 - 130* | *08/15/12 15:19* | *08/22/12 11:26* | *1* |

**Lab Sample ID: LCS 680-246741/10-A**
**Matrix: Water**
**Analysis Batch: 247518**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246741**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 1.00 | 0.617 | | mg/L | | 62 | 25 - 145 | | |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 680-246741/10-A**
**Matrix: Water**
**Analysis Batch: 247518**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246741**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 83 | | 62 - 130 |

**Lab Sample ID: LCSD 680-246741/11-A**
**Matrix: Water**
**Analysis Batch: 247518**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 246741**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 1.00 | 0.671 | | mg/L | | 67 | 25 - 145 | 8 | 50 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 89 | | 62 - 130 |

**Lab Sample ID: MB 680-246815/21-A**
**Matrix: Solid**
**Analysis Batch: 247943**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 246815**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/16/12 14:46 | 08/27/12 15:00 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 106 | | 56 - 135 | 08/16/12 14:46 | 08/27/12 15:00 | 1 |

**Lab Sample ID: LCS 680-246815/22-A**
**Matrix: Solid**
**Analysis Batch: 247943**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 246815**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 32.9 | 27.7 | | mg/Kg | | 84 | 19 - 171 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 90 | | 56 - 135 |

**Lab Sample ID: 180-13351-23 MS**
**Matrix: Solid**
**Analysis Batch: 247943**

**Client Sample ID: 66W@3-5'**
**Prep Type: Total/NA**
**Prep Batch: 246815**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.4 | J | 35.8 | 32.0 | | mg/Kg | ☼ | 80 | 19 - 171 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 90 | | 56 - 135 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 180-13351-23 MSD**
**Matrix: Solid**
**Analysis Batch: 247943**

**Client Sample ID: 66W@3-5'**
**Prep Type: Total/NA**
**Prep Batch: 246815**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.4 | J | 35.6 | 34.5 | | mg/Kg | ☼ | 87 | 19 - 171 | 8 | 50 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *89* | | *56 - 135* |

**Lab Sample ID: MB 680-248177/20-A**
**Matrix: Solid**
**Analysis Batch: 248361**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 248177**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/29/12 17:09 | 08/30/12 15:22 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *77* | | *56 - 135* | *08/29/12 17:09* | *08/30/12 15:22* | *1* |

**Lab Sample ID: LCS 680-248177/21-A**
**Matrix: Solid**
**Analysis Batch: 248361**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 248177**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.3 | 24.5 | | mg/Kg | | 74 | 19 - 171 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *83* | | *56 - 135* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-45002/1-A**
**Matrix: Water**
**Analysis Batch: 45697**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45002**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.40 | 0.10 | ug/L | | 08/14/12 13:40 | 08/20/12 21:25 | 1 |
| PCB-1221 | ND | | 0.40 | 0.10 | ug/L | | 08/14/12 13:40 | 08/20/12 21:25 | 1 |
| PCB-1232 | ND | | 0.40 | 0.12 | ug/L | | 08/14/12 13:40 | 08/20/12 21:25 | 1 |
| PCB-1242 | ND | | 0.40 | 0.074 | ug/L | | 08/14/12 13:40 | 08/20/12 21:25 | 1 |
| PCB-1248 | ND | | 0.40 | 0.091 | ug/L | | 08/14/12 13:40 | 08/20/12 21:25 | 1 |
| PCB-1254 | ND | | 0.40 | 0.092 | ug/L | | 08/14/12 13:40 | 08/20/12 21:25 | 1 |
| PCB-1260 | ND | | 0.40 | 0.054 | ug/L | | 08/14/12 13:40 | 08/20/12 21:25 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *86* | | *35 - 140* | *08/14/12 13:40* | *08/20/12 21:25* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *93* | | *35 - 140* | *08/14/12 13:40* | *08/20/12 21:25* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: LCS 180-45002/4-A**
**Matrix: Water**
**Analysis Batch: 45697**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45002**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 40.0 | 31.5 | | ug/L | | 79 | 60 - 130 |
| PCB-1260 | 40.0 | 32.1 | | ug/L | | 80 | 60 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *94* | | *35 - 140* |

**Lab Sample ID: LCSD 180-45002/5-A**
**Matrix: Water**
**Analysis Batch: 45697**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45002**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 40.0 | 32.6 | | ug/L | | 82 | 60 - 130 | 4 | 27 |
| PCB-1260 | 40.0 | 33.9 | | ug/L | | 85 | 60 - 130 | 5 | 24 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *58* | | *35 - 140* |

**Lab Sample ID: MB 180-45997/1-A**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45997**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/23/12 05:03 | 08/28/12 05:00 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/23/12 05:03 | 08/28/12 05:00 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/23/12 05:03 | 08/28/12 05:00 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/23/12 05:03 | 08/28/12 05:00 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/23/12 05:03 | 08/28/12 05:00 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/23/12 05:03 | 08/28/12 05:00 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/23/12 05:03 | 08/28/12 05:00 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *79* | | *35 - 140* | *08/23/12 05:03* | *08/28/12 05:00* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *87* | | *35 - 140* | *08/23/12 05:03* | *08/28/12 05:00* | *1* |

**Lab Sample ID: LCS 180-45997/2-A**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45997**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 1330 | 1090 | | ug/Kg | | 82 | 55 - 130 |
| PCB-1260 | 1330 | 1140 | | ug/Kg | | 86 | 54 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *82* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *94* | | *35 - 140* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: 180-13351-9 MS**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: 41W@5'-7'**
**Prep Type: Total/NA**
**Prep Batch: 45997**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 1660 | 1170 | | ug/Kg | ☼ | 70 | 55 - 130 |
| PCB-1260 | ND | | 1660 | 1260 | | ug/Kg | ☼ | 76 | 54 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *69* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *81* | | *35 - 140* |

**Lab Sample ID: 180-13351-9 MSD**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: 41W@5'-7'**
**Prep Type: Total/NA**
**Prep Batch: 45997**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 1670 | 1150 | | ug/Kg | ☼ | 69 | 55 - 130 | 1 | 35 |
| PCB-1260 | ND | | 1670 | 1210 | | ug/Kg | ☼ | 72 | 54 - 130 | 4 | 29 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *67* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *80* | | *35 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 180-44915/1-A**
**Matrix: Water**
**Analysis Batch: 45104**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 44915**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 10 | 2.7 | ug/L | | 08/14/12 09:38 | 08/15/12 11:01 | 1 |
| Barium | 1.05 | J | 200 | 0.62 | ug/L | | 08/14/12 09:38 | 08/15/12 11:01 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 08/14/12 09:38 | 08/15/12 11:01 | 1 |
| Chromium | ND | | 5.0 | 0.57 | ug/L | | 08/14/12 09:38 | 08/15/12 11:01 | 1 |
| Lead | ND | | 3.0 | 1.3 | ug/L | | 08/14/12 09:38 | 08/15/12 11:01 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/14/12 09:38 | 08/15/12 11:01 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/14/12 09:38 | 08/15/12 11:01 | 1 |

**Lab Sample ID: LCS 180-44915/2-A**
**Matrix: Water**
**Analysis Batch: 45104**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 44915**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 500 | 503 | | ug/L | | 101 | 80 - 120 |
| Barium | 2000 | 2010 | | ug/L | | 100 | 80 - 120 |
| Cadmium | 50.0 | 49.0 | | ug/L | | 98 | 80 - 120 |
| Chromium | 200 | 200 | | ug/L | | 100 | 80 - 120 |
| Lead | 500 | 493 | | ug/L | | 99 | 80 - 120 |
| Selenium | 500 | 500 | | ug/L | | 100 | 80 - 120 |
| Silver | 50.0 | 49.6 | | ug/L | | 99 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: 180-13351-2 MS**
**Matrix: Water**
**Analysis Batch: 45104**

**Client Sample ID: 44W**
**Prep Type: Total/NA**
**Prep Batch: 44915**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 38 | | 500 | 553 | | ug/L | | 103 | 75 - 125 |
| Barium | 150 | J B | 2000 | 2170 | | ug/L | | 101 | 75 - 125 |
| Cadmium | 1.8 | J | 50.0 | 51.0 | | ug/L | | 98 | 75 - 125 |
| Chromium | 1.1 | J | 200 | 203 | | ug/L | | 101 | 75 - 125 |
| Lead | ND | | 500 | 491 | | ug/L | | 98 | 75 - 125 |
| Selenium | ND | | 500 | 508 | | ug/L | | 102 | 75 - 125 |
| Silver | ND | | 50.0 | 50.5 | | ug/L | | 101 | 75 - 125 |

**Lab Sample ID: 180-13351-2 MSD**
**Matrix: Water**
**Analysis Batch: 45104**

**Client Sample ID: 44W**
**Prep Type: Total/NA**
**Prep Batch: 44915**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 38 | | 500 | 554 | | ug/L | | 103 | 75 - 125 | 0 | 20 |
| Barium | 150 | J B | 2000 | 2200 | | ug/L | | 102 | 75 - 125 | 1 | 20 |
| Cadmium | 1.8 | J | 50.0 | 51.0 | | ug/L | | 98 | 75 - 125 | 0 | 20 |
| Chromium | 1.1 | J | 200 | 203 | | ug/L | | 101 | 75 - 125 | 0 | 20 |
| Lead | ND | | 500 | 491 | | ug/L | | 98 | 75 - 125 | 0 | 20 |
| Selenium | ND | | 500 | 508 | | ug/L | | 102 | 75 - 125 | 0 | 20 |
| Silver | ND | | 50.0 | 50.3 | | ug/L | | 101 | 75 - 125 | 0 | 20 |

**Lab Sample ID: MB 180-45054/1-A**
**Matrix: Solid**
**Analysis Batch: 45287**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45054**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Selenium | ND | | 0.050 | 0.0030 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/15/12 09:47 | 08/16/12 11:49 | 1 |

**Lab Sample ID: LCS 180-45054/2-A**
**Matrix: Solid**
**Analysis Batch: 45287**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45054**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.500 | 0.528 | | mg/L | | 106 | 80 - 120 |
| Barium | 2.00 | 1.99 | | mg/L | | 100 | 80 - 120 |
| Cadmium | 0.0500 | 0.0500 | | mg/L | | 100 | 80 - 120 |
| Chromium | 0.200 | 0.202 | | mg/L | | 101 | 80 - 120 |
| Lead | 0.500 | 0.509 | | mg/L | | 102 | 80 - 120 |
| Selenium | 0.500 | 0.544 | | mg/L | | 109 | 80 - 120 |
| Silver | 0.0500 | 0.0533 | | mg/L | | 107 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 180-45296/1-A**
**Matrix: Solid**
**Analysis Batch: 46302**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45296**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 1.0 | 0.22 | mg/Kg | | 08/16/12 16:15 | 08/25/12 05:46 | 1 |
| Barium | 0.0810 | J | 20 | 0.050 | mg/Kg | | 08/16/12 16:15 | 08/25/12 05:46 | 1 |
| Cadmium | ND | | 0.50 | 0.024 | mg/Kg | | 08/16/12 16:15 | 08/25/12 05:46 | 1 |
| Chromium | ND | | 0.50 | 0.085 | mg/Kg | | 08/16/12 16:15 | 08/25/12 05:46 | 1 |
| Lead | ND | | 0.30 | 0.15 | mg/Kg | | 08/16/12 16:15 | 08/25/12 05:46 | 1 |
| Selenium | 0.253 | J | 0.50 | 0.21 | mg/Kg | | 08/16/12 16:15 | 08/25/12 05:46 | 1 |
| Silver | ND | | 0.50 | 0.058 | mg/Kg | | 08/16/12 16:15 | 08/25/12 05:46 | 1 |

**Lab Sample ID: LCS 180-45296/2-A**
**Matrix: Solid**
**Analysis Batch: 46302**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45296**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 50.0 | 45.4 | | mg/Kg | | 91 | 80 - 120 |
| Barium | 200 | 183 | | mg/Kg | | 91 | 80 - 120 |
| Cadmium | 5.00 | 4.52 | | mg/Kg | | 90 | 80 - 120 |
| Chromium | 20.0 | 18.7 | | mg/Kg | | 94 | 80 - 120 |
| Lead | 50.0 | 46.1 | | mg/Kg | | 92 | 80 - 120 |
| Selenium | 50.0 | 44.6 | | mg/Kg | | 89 | 80 - 120 |
| Silver | 5.00 | 4.63 | | mg/Kg | | 93 | 80 - 120 |

**Lab Sample ID: MB 180-45892/1-A**
**Matrix: Solid**
**Analysis Batch: 46302**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45892**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Selenium | ND | | 0.050 | 0.0030 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |

**Lab Sample ID: LCS 180-45892/2-A**
**Matrix: Solid**
**Analysis Batch: 46302**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45892**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.500 | 0.506 | | mg/L | | 101 | 80 - 120 |
| Barium | 2.00 | 1.88 | | mg/L | | 94 | 80 - 120 |
| Cadmium | 0.0500 | 0.0472 | J | mg/L | | 94 | 80 - 120 |
| Chromium | 0.200 | 0.193 | | mg/L | | 97 | 80 - 120 |
| Lead | 0.500 | 0.489 | | mg/L | | 98 | 80 - 120 |
| Selenium | 0.500 | 0.521 | | mg/L | | 104 | 80 - 120 |
| Silver | 0.0500 | 0.0506 | | mg/L | | 101 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB 180-44820/27-F LB**
**Matrix: Solid**
**Analysis Batch: 45287**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45054**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Barium | 0.00136 | J | 0.20 | 0.00062 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Selenium | 0.00665 | J | 0.050 | 0.0030 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/15/12 09:47 | 08/16/12 11:55 | 1 |

**Lab Sample ID: LB 180-45619/25-E LB**
**Matrix: Solid**
**Analysis Batch: 46302**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45892**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Cadmium | 0.000170 | J | 0.050 | 0.00013 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Selenium | 0.00697 | J | 0.050 | 0.0030 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-45210/1-A**
**Matrix: Solid**
**Analysis Batch: 45292**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45210**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/16/12 10:01 | 08/16/12 14:42 | 1 |

**Lab Sample ID: LCS 180-45210/2-A**
**Matrix: Solid**
**Analysis Batch: 45292**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45210**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00258 | | mg/L | | 103 | 80 - 120 |

**Lab Sample ID: MB 180-46026/1-A**
**Matrix: Solid**
**Analysis Batch: 46130**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46026**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/23/12 08:59 | 08/23/12 14:59 | 1 |

**Lab Sample ID: LCS 180-46026/2-A**
**Matrix: Solid**
**Analysis Batch: 46130**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46026**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00264 | | mg/L | | 106 | 80 - 120 |

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: MB 180-46832/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46906** — **Prep Batch: 46832**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/30/12 07:14 | 08/30/12 12:28 | 1 |

**Lab Sample ID: LCS 180-46832/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46906** — **Prep Batch: 46832**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.50 | 2.39 | | ug/L | | 96 | 80 - 120 |

**Lab Sample ID: LB 180-44820/27-G LB** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 45292** — **Prep Batch: 45210**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0000910 | J | 0.00020 | 0.000038 | mg/L | | 08/16/12 10:01 | 08/16/12 14:46 | 1 |

**Lab Sample ID: LB 180-45619/25-F LB** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 46130** — **Prep Batch: 46026**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000191 | J | 0.00020 | 0.000038 | mg/L | | 08/23/12 08:59 | 08/23/12 15:07 | 1 |

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 180-46676/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46762** — **Prep Batch: 46676**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000065 | mg/Kg | | 08/29/12 06:52 | 08/29/12 13:07 | 1 |

**Lab Sample ID: LCS 180-46676/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46762** — **Prep Batch: 46676**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00242 | | mg/Kg | | 97 | 80 - 120 |

## Method: 1664A - HEM and SGT-HEM

**Lab Sample ID: MB 180-46586/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46786** — **Prep Batch: 46586**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.0 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |
| TPH | ND | | 5.0 | 1.5 | mg/L | | 08/28/12 11:57 | 08/28/12 11:57 | 1 |

## Method: 1664A - HEM and SGT-HEM (Continued)

**Lab Sample ID: LCS 180-46586/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46786** — **Prep Batch: 46586**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.0 | | mg/L | | 88 | 78 - 114 |
| TPH | 20.0 | 13.7 | | mg/L | | 69 | 64 - 132 |

**Lab Sample ID: LCSD 180-46586/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 46786** — **Prep Batch: 46586**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.6 | | mg/L | | 89 | 78 - 114 | 2 | 18 |
| TPH | 20.0 | 14.6 | | mg/L | | 73 | 64 - 132 | 6 | 34 |

## Method: 9012A - Cyanide, Total and/or Amenable

**Lab Sample ID: MB 180-45721/5-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45810** — **Prep Batch: 45721**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.50 | 0.097 | mg/Kg | | 08/21/12 10:10 | 08/21/12 12:51 | 1 |

**Lab Sample ID: HLCS 180-45721/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45810** — **Prep Batch: 45721**

| Analyte | Spike Added | HLCS Result | HLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.250 | 0.252 | | mg/Kg | | 101 | 90 - 110 |

**Lab Sample ID: LCS 180-45721/3-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45810** — **Prep Batch: 45721**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 28.1 | 23.7 | | mg/Kg | | 85 | 38 - 162 |

**Lab Sample ID: LCSD 180-45721/4-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45810** — **Prep Batch: 45721**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 28.1 | 23.2 | | mg/Kg | | 83 | 38 - 162 | 2 | 20 |

**Lab Sample ID: LLCS 180-45721/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45810** — **Prep Batch: 45721**

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.0500 | 0.0449 | | mg/Kg | | 90 | 90 - 110 |

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 680-247668/1-A**
**Matrix: Water**
**Analysis Batch: 247676**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247668**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

**Lab Sample ID: LCS 680-247668/2-A**
**Matrix: Water**
**Analysis Batch: 247676**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247668**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.100 | | mg/L | | 102 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.100 | | mg/L | | 102 | 60 - 140 |

**Lab Sample ID: MB 680-247689/1-A**
**Matrix: Water**
**Analysis Batch: 247691**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247689**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

**Lab Sample ID: LCS 680-247689/2-A**
**Matrix: Water**
**Analysis Batch: 247691**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247689**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.0976 | | mg/L | | 99 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.0976 | | mg/L | | 99 | 60 - 140 |

**Lab Sample ID: 180-13351-24 MS**
**Matrix: Water**
**Analysis Batch: 247691**

**Client Sample ID: 66W**
**Prep Type: Total/NA**
**Prep Batch: 247689**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.043 | | 0.0984 | 0.124 | | mg/L | | 82 | 60 - 140 |
| TOX Result 2 | 0.043 | | 0.0984 | 0.124 | | mg/L | | 83 | 60 - 140 |

**Lab Sample ID: 180-13351-24 MSD**
**Matrix: Water**
**Analysis Batch: 247691**

**Client Sample ID: 66W**
**Prep Type: Total/NA**
**Prep Batch: 247689**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.043 | | 0.0984 | 0.114 | | mg/L | | 72 | 60 - 140 | 8 | 40 |
| TOX Result 2 | 0.043 | | 0.0984 | 0.114 | | mg/L | | 72 | 60 - 140 | 8 | 40 |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-17307/2-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 17755** — **Prep Batch: 17307**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.0 | mg/Kg | | 09/04/12 07:15 | 09/04/12 07:22 | 1 |

**Lab Sample ID: LCS 490-17307/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 17755** — **Prep Batch: 17307**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1030 | | mg/Kg | | 99 | 90 - 110 |

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

**Lab Sample ID: MB 180-45099/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45162** — **Prep Batch: 45099**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide | ND | | 30 | 6.0 | mg/Kg | | 08/15/12 13:45 | 08/15/12 17:00 | 1 |

**Lab Sample ID: LCS 180-45099/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45162** — **Prep Batch: 45099**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfide | 192 | 186 | | mg/Kg | | 97 | 85 - 115 |

**Lab Sample ID: LCSD 180-45099/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45162** — **Prep Batch: 45099**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 192 | 194 | | mg/Kg | | 101 | 85 - 115 | 4 | 20 |

## Method: 9045C - pH

**Lab Sample ID: LCS 180-45258/1** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 45258**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| pH | 7.00 | 6.960 | | SU | | 99 | 99 - 101 |

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-46827/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46914** — **Prep Batch: 46827**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | ND | | 170 | 23 | mg/Kg | | 08/30/12 06:44 | 08/30/12 06:44 | 1 |

## Method: 9071B - HEM and SGT-HEM (Continued)

**Lab Sample ID: LCS 180-46827/2-A**
**Matrix: Solid**
**Analysis Batch: 46914**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46827**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1150 | | mg/Kg | | 86 | 78 - 114 | | |

**Lab Sample ID: LCSD 180-46827/3-A**
**Matrix: Solid**
**Analysis Batch: 46914**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 46827**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1120 | | mg/Kg | | 84 | 78 - 114 | 2 | 18 |

## Method: Moisture - Percent Moisture

**Lab Sample ID: 180-13351-1 DU**
**Matrix: Solid**
**Analysis Batch: 44969**

**Client Sample ID: 44W@2-4'**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | | DU Result | DU Qualifier | Unit | D | | | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | | 14 | | % | | | | 8 | 20 |
| Percent Solids | 85 | | | 86 | | % | | | | 1 | 20 |

## GC/MS VOA

### Leach Batch: 44981

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 1311 | |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 1311 | |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 1311 | |
| LB 180-44981/12-A LB | Method Blank | TCLP | Solid | 1311 | |

### Analysis Batch: 45239

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 8260B | |
| 180-13351-8 | 41W | Total/NA | Water | 8260B | |
| 180-13351-10 | FB | Total/NA | Water | 8260B | |
| 180-13351-12 | 40W | Total/NA | Water | 8260B | |
| 180-13351-13 | TRIP BLANK (TB) | Total/NA | Water | 8260B | |
| LCS 180-45239/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-45239/7 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-45239/3 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 45280

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-4 | 45W | Total/NA | Water | 8260B | |
| 180-13351-6 | 46W | Total/NA | Water | 8260B | |
| LCS 180-45280/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-45280/6 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-45280/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 45410

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 8260B | 44981 |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 8260B | 44981 |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 8260B | 44981 |
| LB 180-44981/12-A LB | Method Blank | TCLP | Solid | 8260B | 44981 |
| LCS 180-45410/6 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 180-45410/7 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 45412

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-15 | 43W | Total/NA | Water | 8260B | |
| LCS 180-45412/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-45412/6 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-45412/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 45487

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-17 | 43WD | Total/NA | Water | 8260B | |
| 180-13351-20 | 38W | Total/NA | Water | 8260B | |
| 180-13351-22 | 67W | Total/NA | Water | 8260B | |
| 180-13351-24 | 66W | Total/NA | Water | 8260B | |
| LCS 180-45487/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 180-45487/4 | Method Blank | Total/NA | Water | 8260B | |

### Prep Batch: 45531

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 5030B | |

## GC/MS VOA (Continued)

### Prep Batch: 45531 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 5030B | |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 5030B | |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 5030B | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 5030B | |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 5030B | |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 5030B | |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 5030B | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 5030B | |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 5030B | |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 5030B | |
| LCS 180-45531/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| MB 180-45531/1-A | Method Blank | Total/NA | Solid | 5030B | |

### Analysis Batch: 45532

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 8260B | 45531 |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 8260B | 45531 |
| LCS 180-45531/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 45531 |
| MB 180-45531/1-A | Method Blank | Total/NA | Solid | 8260B | 45531 |

### Leach Batch: 45774

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 1311 | |
| LB 180-45774/9-A LB | Method Blank | TCLP | Solid | 1311 | |

### Leach Batch: 45830

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LB 180-45830/6-A LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 45852

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 5030B | |
| LCS 180-45852/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| LCSD 180-45852/3-A | Lab Control Sample Dup | Total/NA | Solid | 5030B | |
| MB 180-45852/1-A | Method Blank | Total/NA | Solid | 5030B | |

### Analysis Batch: 45857

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 8260B | 45852 |
| LCS 180-45852/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 45852 |
| LCSD 180-45852/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B | 45852 |
| MB 180-45852/1-A | Method Blank | Total/NA | Solid | 8260B | 45852 |

## GC/MS VOA (Continued)

### Analysis Batch: 45860

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 8260B | 45774 |
| LB 180-45774/9-A LB | Method Blank | TCLP | Solid | 8260B | 45774 |
| LB 180-45830/6-A LB | Method Blank | TCLP | Solid | 8260B | 45830 |
| LCS 180-45860/9 | Lab Control Sample | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Leach Batch: 44820

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 1311 | |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 1311 | |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 1311 | |
| LB 180-44820/27-B LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 45004

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 3510C | 44820 |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 3510C | 44820 |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 3510C | 44820 |
| LB 180-44820/27-B LB | Method Blank | TCLP | Solid | 3510C | 44820 |
| LCS 180-45004/2-A | Lab Control Sample | Total/NA | Solid | 3510C | |
| LCSD 180-45004/3-A | Lab Control Sample Dup | Total/NA | Solid | 3510C | |
| MB 180-45004/1-A | Method Blank | Total/NA | Solid | 3510C | |

### Analysis Batch: 45181

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 8270C | 45004 |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 8270C | 45004 |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 8270C | 45004 |
| LB 180-44820/27-B LB | Method Blank | TCLP | Solid | 8270C | 45004 |
| LCS 180-45004/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 45004 |
| LCSD 180-45004/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 45004 |
| MB 180-45004/1-A | Method Blank | Total/NA | Solid | 8270C | 45004 |

### Prep Batch: 45197

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 3520C | |
| 180-13351-8 | 41W | Total/NA | Water | 3520C | |
| 180-13351-12 | 40W | Total/NA | Water | 3520C | |
| LCS 180-45197/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 180-45197/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 180-45197/1-A | Method Blank | Total/NA | Water | 3520C | |

### Analysis Batch: 45461

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 8270C | 45197 |
| 180-13351-8 | 41W | Total/NA | Water | 8270C | 45197 |
| 180-13351-12 | 40W | Total/NA | Water | 8270C | 45197 |
| LCS 180-45197/2-A | Lab Control Sample | Total/NA | Water | 8270C | 45197 |
| LCSD 180-45197/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C | 45197 |
| MB 180-45197/1-A | Method Blank | Total/NA | Water | 8270C | 45197 |

## GC/MS Semi VOA (Continued)

### Leach Batch: 45619

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 1311 | |
| LB 180-45619/25-B LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 45793

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 3510C | 45619 |
| LB 180-45619/25-B LB | Method Blank | TCLP | Solid | 3510C | 45619 |
| LCS 180-45793/2-A | Lab Control Sample | Total/NA | Solid | 3510C | |
| LCSD 180-45793/3-A | Lab Control Sample Dup | Total/NA | Solid | 3510C | |
| MB 180-45793/1-A | Method Blank | Total/NA | Solid | 3510C | |

### Prep Batch: 45992

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 3541 | |
| 180-13351-1 MS | 44W@2-4' | Total/NA | Solid | 3541 | |
| 180-13351-1 MSD | 44W@2-4' | Total/NA | Solid | 3541 | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 3541 | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 3541 | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 3541 | |
| LCS 180-45992/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-45992/1-A | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 46007

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 8270C | 45793 |
| LB 180-45619/25-B LB | Method Blank | TCLP | Solid | 8270C | 45793 |
| LCS 180-45793/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 45793 |
| LCSD 180-45793/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 45793 |
| MB 180-45793/1-A | Method Blank | Total/NA | Solid | 8270C | 45793 |

### Analysis Batch: 46300

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 8270C | 45992 |
| 180-13351-1 MS | 44W@2-4' | Total/NA | Solid | 8270C | 45992 |
| 180-13351-1 MSD | 44W@2-4' | Total/NA | Solid | 8270C | 45992 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 8270C | 45992 |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 8270C | 45992 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 8270C | 45992 |
| LCS 180-45992/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 45992 |
| MB 180-45992/1-A | Method Blank | Total/NA | Solid | 8270C | 45992 |

## GC VOA

### Analysis Batch: 247175

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 8015B | |
| 180-13351-4 | 45W | Total/NA | Water | 8015B | |
| 180-13351-6 | 46W | Total/NA | Water | 8015B | |
| 180-13351-8 | 41W | Total/NA | Water | 8015B | |
| LCS 680-247175/9 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-247175/2 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-247175/8 | Method Blank | Total/NA | Water | 8015B | |

## GC VOA (Continued)

### Analysis Batch: 247420

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 8015B | |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 8015B | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 8015B | |
| LCS 680-247420/5 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247420/6 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| LCSD 680-247420/7 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247420/23 | Method Blank | Total/NA | Solid | 8015B | |
| MB 680-247420/3 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 247547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 8015B | |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 8015B | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 8015B | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 8015B | |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 8015B | |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 8015B | |
| LCS 680-247547/5 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCS 680-247547/6 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247547/7 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| LCSD 680-247547/8 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247547/3 | Method Blank | Total/NA | Solid | 8015B | |
| MB 680-247547/4 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 247591

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-12 | 40W | Total/NA | Water | 8015B | |
| 180-13351-15 | 43W | Total/NA | Water | 8015B | |
| 180-13351-17 | 43WD | Total/NA | Water | 8015B | |
| 180-13351-20 | 38W | Total/NA | Water | 8015B | |
| 180-13351-22 | 67W | Total/NA | Water | 8015B | |
| 180-13351-24 | 66W | Total/NA | Water | 8015B | |
| LCS 680-247591/4 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-247591/5 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-247591/3 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 247709

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 8015B | |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 8015B | |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 8015B | |
| LCS 680-247709/5 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247709/6 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247709/4 | Method Blank | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 45002

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 3510C | |
| 180-13351-8 | 41W | Total/NA | Water | 3510C | |
| 180-13351-12 | 40W | Total/NA | Water | 3510C | |

## GC Semi VOA (Continued)

### Prep Batch: 45002 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 180-45002/4-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 180-45002/5-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 180-45002/1-A | Method Blank | Total/NA | Water | 3510C | |

### Analysis Batch: 45697

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 8082 | 45002 |
| 180-13351-8 | 41W | Total/NA | Water | 8082 | 45002 |
| 180-13351-12 | 40W | Total/NA | Water | 8082 | 45002 |
| LCS 180-45002/4-A | Lab Control Sample | Total/NA | Water | 8082 | 45002 |
| LCSD 180-45002/5-A | Lab Control Sample Dup | Total/NA | Water | 8082 | 45002 |
| MB 180-45002/1-A | Method Blank | Total/NA | Water | 8082 | 45002 |

### Prep Batch: 45997

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 3541 | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 3541 | |
| 180-13351-9 MS | 41W@5'-7' | Total/NA | Solid | 3541 | |
| 180-13351-9 MSD | 41W@5'-7' | Total/NA | Solid | 3541 | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 3541 | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 3541 | |
| LCS 180-45997/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-45997/1-A | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 46582

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 8082 | 45997 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 8082 | 45997 |
| 180-13351-9 MS | 41W@5'-7' | Total/NA | Solid | 8082 | 45997 |
| 180-13351-9 MSD | 41W@5'-7' | Total/NA | Solid | 8082 | 45997 |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 8082 | 45997 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 8082 | 45997 |
| LCS 180-45997/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 45997 |
| MB 180-45997/1-A | Method Blank | Total/NA | Solid | 8082 | 45997 |

### Prep Batch: 246741

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 3520C | |
| 180-13351-4 | 45W | Total/NA | Water | 3520C | |
| 180-13351-6 | 46W | Total/NA | Water | 3520C | |
| 180-13351-8 | 41W | Total/NA | Water | 3520C | |
| 180-13351-12 | 40W | Total/NA | Water | 3520C | |
| 180-13351-15 | 43W | Total/NA | Water | 3520C | |
| 180-13351-17 | 43WD | Total/NA | Water | 3520C | |
| 180-13351-20 | 38W | Total/NA | Water | 3520C | |
| 180-13351-22 | 67W | Total/NA | Water | 3520C | |
| 180-13351-24 | 66W | Total/NA | Water | 3520C | |
| LCS 680-246741/10-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 680-246741/11-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 680-246741/9-A | Method Blank | Total/NA | Water | 3520C | |

## GC Semi VOA (Continued)

### Prep Batch: 246815

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 3546 | |
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 3546 | |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 3546 | |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 3546 | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 3546 | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 3546 | |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 3546 | |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 3546 | |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 3546 | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 3546 | |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 3546 | |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 3546 | |
| 180-13351-23 MS | 66W@3-5' | Total/NA | Solid | 3546 | |
| 180-13351-23 MSD | 66W@3-5' | Total/NA | Solid | 3546 | |
| LCS 680-246815/22-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-246815/21-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 247518

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 8015B | 246741 |
| 180-13351-4 | 45W | Total/NA | Water | 8015B | 246741 |
| 180-13351-6 | 46W | Total/NA | Water | 8015B | 246741 |
| 180-13351-8 | 41W | Total/NA | Water | 8015B | 246741 |
| 180-13351-12 | 40W | Total/NA | Water | 8015B | 246741 |
| 180-13351-15 | 43W | Total/NA | Water | 8015B | 246741 |
| 180-13351-17 | 43WD | Total/NA | Water | 8015B | 246741 |
| 180-13351-20 | 38W | Total/NA | Water | 8015B | 246741 |
| 180-13351-22 | 67W | Total/NA | Water | 8015B | 246741 |
| 180-13351-24 | 66W | Total/NA | Water | 8015B | 246741 |
| LCS 680-246741/10-A | Lab Control Sample | Total/NA | Water | 8015B | 246741 |
| LCSD 680-246741/11-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 246741 |
| MB 680-246741/9-A | Method Blank | Total/NA | Water | 8015B | 246741 |

### Analysis Batch: 247943

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-23 MS | 66W@3-5' | Total/NA | Solid | 8015B | 246815 |
| 180-13351-23 MSD | 66W@3-5' | Total/NA | Solid | 8015B | 246815 |
| LCS 680-246815/22-A | Lab Control Sample | Total/NA | Solid | 8015B | 246815 |
| MB 680-246815/21-A | Method Blank | Total/NA | Solid | 8015B | 246815 |

## GC Semi VOA (Continued)

### Prep Batch: 248177

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-11 - RE | 40W@2'-4' | Total/NA | Solid | 3546 | |
| LCS 680-248177/21-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-248177/20-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 248361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-11 - RE | 40W@2'-4' | Total/NA | Solid | 8015B | 248177 |
| LCS 680-248177/21-A | Lab Control Sample | Total/NA | Solid | 8015B | 248177 |
| MB 680-248177/20-A | Method Blank | Total/NA | Solid | 8015B | 248177 |

## Metals

### Leach Batch: 44820

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 1311 | |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 1311 | |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 1311 | |
| LB 180-44820/27-F LB | Method Blank | TCLP | Solid | 1311 | |
| LB 180-44820/27-G LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 44915

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 3010A | |
| 180-13351-2 MS | 44W | Total/NA | Water | 3010A | |
| 180-13351-2 MSD | 44W | Total/NA | Water | 3010A | |
| 180-13351-8 | 41W | Total/NA | Water | 3010A | |
| 180-13351-12 | 40W | Total/NA | Water | 3010A | |
| LCS 180-44915/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| MB 180-44915/1-A | Method Blank | Total/NA | Water | 3010A | |

### Prep Batch: 45054

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 3010A | 44820 |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 3010A | 44820 |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 3010A | 44820 |
| LB 180-44820/27-F LB | Method Blank | TCLP | Solid | 3010A | 44820 |
| LCS 180-45054/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |
| MB 180-45054/1-A | Method Blank | Total/NA | Solid | 3010A | |

### Analysis Batch: 45104

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 6010B | 44915 |
| 180-13351-2 | 44W | Total/NA | Water | 6010B | 44915 |
| 180-13351-2 MS | 44W | Total/NA | Water | 6010B | 44915 |
| 180-13351-2 MSD | 44W | Total/NA | Water | 6010B | 44915 |
| 180-13351-8 | 41W | Total/NA | Water | 6010B | 44915 |
| 180-13351-12 | 40W | Total/NA | Water | 6010B | 44915 |
| LCS 180-44915/2-A | Lab Control Sample | Total/NA | Water | 6010B | 44915 |
| MB 180-44915/1-A | Method Blank | Total/NA | Water | 6010B | 44915 |

## Metals (Continued)

### Prep Batch: 45210

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 7470A | 44820 |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 7470A | 44820 |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 7470A | 44820 |
| LB 180-44820/27-G LB | Method Blank | TCLP | Solid | 7470A | 44820 |
| LCS 180-45210/2-A | Lab Control Sample | Total/NA | Solid | 7470A | |
| MB 180-45210/1-A | Method Blank | Total/NA | Solid | 7470A | |

### Analysis Batch: 45287

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 6010B | 45054 |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 6010B | 45054 |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 6010B | 45054 |
| LB 180-44820/27-F LB | Method Blank | TCLP | Solid | 6010B | 45054 |
| LCS 180-45054/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 45054 |
| MB 180-45054/1-A | Method Blank | Total/NA | Solid | 6010B | 45054 |

### Analysis Batch: 45292

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | TCLP | Solid | 7470A | 45210 |
| 180-13351-9 | 41W@5'-7' | TCLP | Solid | 7470A | 45210 |
| 180-13351-11 | 40W@2'-4' | TCLP | Solid | 7470A | 45210 |
| LB 180-44820/27-G LB | Method Blank | TCLP | Solid | 7470A | 45210 |
| LCS 180-45210/2-A | Lab Control Sample | Total/NA | Solid | 7470A | 45210 |
| MB 180-45210/1-A | Method Blank | Total/NA | Solid | 7470A | 45210 |

### Prep Batch: 45296

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 3050B | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 3050B | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 3050B | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 3050B | |
| LCS 180-45296/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 180-45296/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Leach Batch: 45619

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 1311 | |
| LB 180-45619/25-E LB | Method Blank | TCLP | Solid | 1311 | |
| LB 180-45619/25-F LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 45892

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 3010A | 45619 |
| LB 180-45619/25-E LB | Method Blank | TCLP | Solid | 3010A | 45619 |
| LCS 180-45892/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |
| MB 180-45892/1-A | Method Blank | Total/NA | Solid | 3010A | |

### Prep Batch: 46026

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 7470A | 45619 |
| LB 180-45619/25-F LB | Method Blank | TCLP | Solid | 7470A | 45619 |
| LCS 180-46026/2-A | Lab Control Sample | Total/NA | Solid | 7470A | |

## Metals (Continued)

### Prep Batch: 46026 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 180-46026/1-A | Method Blank | Total/NA | Solid | 7470A | |

### Analysis Batch: 46130

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-19 | 38@4-6' | TCLP | Solid | 7470A | 46026 |
| LB 180-45619/25-F LB | Method Blank | TCLP | Solid | 7470A | 46026 |
| LCS 180-46026/2-A | Lab Control Sample | Total/NA | Solid | 7470A | 46026 |
| MB 180-46026/1-A | Method Blank | Total/NA | Solid | 7470A | 46026 |

### Analysis Batch: 46302

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 6010B | 45296 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 6010B | 45296 |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 6010B | 45296 |
| 180-13351-19 | 38@4-6' | TCLP | Solid | 6010B | 45892 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 6010B | 45296 |
| LB 180-45619/25-E LB | Method Blank | TCLP | Solid | 6010B | 45892 |
| LCS 180-45296/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 45296 |
| LCS 180-45892/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 45892 |
| MB 180-45296/1-A | Method Blank | Total/NA | Solid | 6010B | 45296 |
| MB 180-45892/1-A | Method Blank | Total/NA | Solid | 6010B | 45892 |

### Prep Batch: 46676

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 7471A | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 7471A | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 7471A | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 7471A | |
| LCS 180-46676/2-A | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 180-46676/1-A | Method Blank | Total/NA | Solid | 7471A | |

### Analysis Batch: 46762

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 7471A | 46676 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 7471A | 46676 |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 7471A | 46676 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 7471A | 46676 |
| LCS 180-46676/2-A | Lab Control Sample | Total/NA | Solid | 7471A | 46676 |
| MB 180-46676/1-A | Method Blank | Total/NA | Solid | 7471A | 46676 |

### Prep Batch: 46832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 7470A | |
| 180-13351-8 | 41W | Total/NA | Water | 7470A | |
| 180-13351-12 | 40W | Total/NA | Water | 7470A | |
| LCS 180-46832/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-46832/1-A | Method Blank | Total/NA | Water | 7470A | |

### Analysis Batch: 46906

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 7470A | 46832 |
| 180-13351-8 | 41W | Total/NA | Water | 7470A | 46832 |

## Metals (Continued)

### Analysis Batch: 46906 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-12 | 40W | Total/NA | Water | 7470A | 46832 |
| LCS 180-46832/2-A | Lab Control Sample | Total/NA | Water | 7470A | 46832 |
| MB 180-46832/1-A | Method Blank | Total/NA | Water | 7470A | 46832 |

## General Chemistry

### Prep Batch: 17307

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 9023 | |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 9023 | |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 9023 | |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 9023 | |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 9023 | |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 9023 | |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 9023 | |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 9023 | |
| LCS 490-17307/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-17307/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 17755

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 9023 | 17307 |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 9023 | 17307 |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 9023 | 17307 |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 9023 | 17307 |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 9023 | 17307 |
| LCS 490-17307/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 17307 |
| MB 490-17307/2-A | Method Blank | Total/NA | Solid | 9023 | 17307 |

### Analysis Batch: 44969

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | Moisture | |
| 180-13351-1 DU | 44W@2-4' | Total/NA | Solid | Moisture | |
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | Moisture | |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | Moisture | |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | Moisture | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | Moisture | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | Moisture | |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | Moisture | |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | Moisture | |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | Moisture | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | Moisture | |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | Moisture | |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | Moisture | |

### Prep Batch: 45099

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 9030B | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 9030B | |

## General Chemistry (Continued)

### Prep Batch: 45099 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 9030B | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 9030B | |
| LCS 180-45099/2-A | Lab Control Sample | Total/NA | Solid | 9030B | |
| LCSD 180-45099/3-A | Lab Control Sample Dup | Total/NA | Solid | 9030B | |
| MB 180-45099/1-A | Method Blank | Total/NA | Solid | 9030B | |

### Analysis Batch: 45162

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 9034 | 45099 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 9034 | 45099 |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 9034 | 45099 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 9034 | 45099 |
| LCS 180-45099/2-A | Lab Control Sample | Total/NA | Solid | 9034 | 45099 |
| LCSD 180-45099/3-A | Lab Control Sample Dup | Total/NA | Solid | 9034 | 45099 |
| MB 180-45099/1-A | Method Blank | Total/NA | Solid | 9034 | 45099 |

### Analysis Batch: 45258

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 9045C | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 9045C | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 9045C | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 9045C | |
| LCS 180-45258/1 | Lab Control Sample | Total/NA | Solid | 9045C | |

### Prep Batch: 45721

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 9012A | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 9012A | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 9012A | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 9012A | |
| HLCS 180-45721/2-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| LCS 180-45721/3-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| LCSD 180-45721/4-A | Lab Control Sample Dup | Total/NA | Solid | 9012A | |
| LLCS 180-45721/1-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| MB 180-45721/5-A | Method Blank | Total/NA | Solid | 9012A | |

### Analysis Batch: 45810

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 9012A | 45721 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 9012A | 45721 |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 9012A | 45721 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 9012A | 45721 |
| HLCS 180-45721/2-A | Lab Control Sample | Total/NA | Solid | 9012A | 45721 |
| LCS 180-45721/3-A | Lab Control Sample | Total/NA | Solid | 9012A | 45721 |
| LCSD 180-45721/4-A | Lab Control Sample Dup | Total/NA | Solid | 9012A | 45721 |
| LLCS 180-45721/1-A | Lab Control Sample | Total/NA | Solid | 9012A | 45721 |
| MB 180-45721/5-A | Method Blank | Total/NA | Solid | 9012A | 45721 |

### Analysis Batch: 46106

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 1020B | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 1020B | |

## General Chemistry (Continued)

### Analysis Batch: 46106 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 1020B | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 1020B | |

### Prep Batch: 46586

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 1664A | |
| 180-13351-4 | 45W | Total/NA | Water | 1664A | |
| 180-13351-6 | 46W | Total/NA | Water | 1664A | |
| 180-13351-8 | 41W | Total/NA | Water | 1664A | |
| 180-13351-12 | 40W | Total/NA | Water | 1664A | |
| 180-13351-15 | 43W | Total/NA | Water | 1664A | |
| 180-13351-17 | 43WD | Total/NA | Water | 1664A | |
| 180-13351-20 | 38W | Total/NA | Water | 1664A | |
| 180-13351-22 | 67W | Total/NA | Water | 1664A | |
| 180-13351-24 | 66W | Total/NA | Water | 1664A | |
| LCS 180-46586/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-46586/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-46586/1-A | Method Blank | Total/NA | Water | 1664A | |

### Analysis Batch: 46786

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-2 | 44W | Total/NA | Water | 1664A | 46586 |
| 180-13351-4 | 45W | Total/NA | Water | 1664A | 46586 |
| 180-13351-6 | 46W | Total/NA | Water | 1664A | 46586 |
| 180-13351-8 | 41W | Total/NA | Water | 1664A | 46586 |
| 180-13351-12 | 40W | Total/NA | Water | 1664A | 46586 |
| 180-13351-15 | 43W | Total/NA | Water | 1664A | 46586 |
| 180-13351-17 | 43WD | Total/NA | Water | 1664A | 46586 |
| 180-13351-20 | 38W | Total/NA | Water | 1664A | 46586 |
| 180-13351-22 | 67W | Total/NA | Water | 1664A | 46586 |
| 180-13351-24 | 66W | Total/NA | Water | 1664A | 46586 |
| LCS 180-46586/2-A | Lab Control Sample | Total/NA | Water | 1664A | 46586 |
| LCSD 180-46586/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 46586 |
| MB 180-46586/1-A | Method Blank | Total/NA | Water | 1664A | 46586 |

### Prep Batch: 46827

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 9071B | |
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 9071B | |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 9071B | |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 9071B | |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 9071B | |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 9071B | |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 9071B | |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 9071B | |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 9071B | |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 9071B | |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 9071B | |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 9071B | |
| LCS 180-46827/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-46827/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-46827/1-A | Method Blank | Total/NA | Solid | 9071B | |

## General Chemistry (Continued)

### Analysis Batch: 46914

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-1 | 44W@2-4' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-3 | 45W@1-3' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-5 | 46W@2-4' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-7 | 41W@0'-1' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-9 | 41W@5'-7' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-11 | 40W@2'-4' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-14 | 43W@2-4' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-16 | 43WD@2-4' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-18 | 39@2-4' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-19 | 38@4-6' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-21 | 67W@3-5' | Total/NA | Solid | 9071B | 46827 |
| 180-13351-23 | 66W@3-5' | Total/NA | Solid | 9071B | 46827 |
| LCS 180-46827/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 46827 |
| LCSD 180-46827/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 46827 |
| MB 180-46827/1-A | Method Blank | Total/NA | Solid | 9071B | 46827 |

### Prep Batch: 247668

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-4 | 45W | Total/NA | Water | Carbon Trap | |
| 180-13351-6 | 46W | Total/NA | Water | Carbon Trap | |
| 180-13351-15 | 43W | Total/NA | Water | Carbon Trap | |
| 180-13351-17 | 43WD | Total/NA | Water | Carbon Trap | |
| 180-13351-20 | 38W | Total/NA | Water | Carbon Trap | |
| 180-13351-22 | 67W | Total/NA | Water | Carbon Trap | |
| LCS 680-247668/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-247668/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 247676

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-4 | 45W | Total/NA | Water | 9020B | 247668 |
| 180-13351-6 | 46W | Total/NA | Water | 9020B | 247668 |
| 180-13351-15 | 43W | Total/NA | Water | 9020B | 247668 |
| 180-13351-17 | 43WD | Total/NA | Water | 9020B | 247668 |
| 180-13351-20 | 38W | Total/NA | Water | 9020B | 247668 |
| 180-13351-22 | 67W | Total/NA | Water | 9020B | 247668 |
| LCS 680-247668/2-A | Lab Control Sample | Total/NA | Water | 9020B | 247668 |
| MB 680-247668/1-A | Method Blank | Total/NA | Water | 9020B | 247668 |

### Prep Batch: 247689

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-24 | 66W | Total/NA | Water | Carbon Trap | |
| 180-13351-24 MS | 66W | Total/NA | Water | Carbon Trap | |
| 180-13351-24 MSD | 66W | Total/NA | Water | Carbon Trap | |
| LCS 680-247689/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-247689/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 247691

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13351-24 | 66W | Total/NA | Water | 9020B | 247689 |
| 180-13351-24 MS | 66W | Total/NA | Water | 9020B | 247689 |
| 180-13351-24 MSD | 66W | Total/NA | Water | 9020B | 247689 |
| LCS 680-247689/2-A | Lab Control Sample | Total/NA | Water | 9020B | 247689 |

## General Chemistry (Continued)

### Analysis Batch: 247691 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 680-247689/1-A | Method Blank | Total/NA | Water | 9020B | 247689 |

[90-13351

2.4, 1.9 3.1, 2.7, 3.3, 4.6, 5.8 #2

# Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | 1 of 3 COCs |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only |
| Phone: 804-442-3370 | | TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab picked up: ☐ Lab sampling: ☐ Job/SDG No.: |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite=C/ Grab=G | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | METALS | PCBs | TCLP (Full) | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 44W@ 2-4' | 8/9 | 10:30 | | | | X | | | | | | | | | | | X | X | X | X | | X | X | X | |
| 44W | 8/9 | 10:30 | | X | | | | X | X | X | | | | | | | X | X | X | X | | X | X | | |
| 45W@ 1-3' | 8/9 | 11:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 45W | 8/9 | 11:30 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 46W@ 2-4' | 8/9 | 12:15 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 46W | 8/9 | 12:30 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 41W@ 0'-1' | 8/9 | 1:45 | | | | X | | | | | | | | | | | X | X | [redacted] | | X | [redacted] | [redacted] | [redacted] | |
| 41W | 8/9 | 2:00 | | X | | | | X | X | X | | | | | | | X | X | X | X | | X | X | | |
| 41W@ 5'-7' | 8/9 | 1:45 | | | | X | | | | | | | | | | | X | X | X | X | | X | X | X | |
| FB (Field Equipment Blank) | 8/9 | 11:45 | | X | | | | | | X | | | | | | | | | X | | | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Company: EEE | Date/Time: 8/10/12 2:00 pm | Received by: | Company: TA | Date/Time: 8/10/12 1400 |
| Relinquished by: | Company: TA | Date/Time: 8/10/12 17:01 | Received by: | Company: TA Pitt | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

9/27/2012

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leegar | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd | Telephone: | Telephone: 804-513-8080 | Telephone: | 2 of 3 COCs |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | | For lab use only |
| Phone: 804-442-3530 | | TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client ☐ Lab picking ☐ Lab sampling ☐ Job/SDG No.: |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite (C) / Grab (G) | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | PCBs | Metals | TCLP (FULL) | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40W@2'-4' | 8/9 | 3:15 | | | | X | | | | | | | | | | | X | X | X | X | | X | X | X | |
| 40W | 8/9 | 3:30 | | X | | | | X | X | X | | | | | | | X | X | X | X | | X | X | | |
| Trip Blank (TB) | | | | X | | | | | | X | | | | | | | | | X | | | | | | |
| 43W@2-4' | 8/90 | 8:45a | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 43W | 8/90 | 9:10a | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 43WD@2-4' | 8/10 | 8:45a | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 43WD | 8/10 | 9:10a | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 39@2-4' | 8/10 | 9:30a | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 38@4-6' | 8/10 | 10:15 | | | | X | | | | | | | | | | | X | X | X | X | | X | X | X | |
| 38W | 8/10 | 10:30 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Company: EEE | Date/Time: 8/10/12 2:00pm | Received by: | Company: TA | Date/Time: 8/10/12 1400 |
| Relinquished by: | Company: TA | Date/Time: 8/10/12 1700 | Received by: | Company: TAPIA | Date/Time: |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting (3e) | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd | Telephone: | Telephone: (804) 513 8080 | Telephone: | 3 of 3 COCs |
| City/State/Zip: Mechanicsville, VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | | For lab use only |
| Phone: (804) 442-3330 | | TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: Courier | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | Job/SDG No: |
| PO# 12-074 | | | | |

Analyses

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C/Grab G | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EDX | PCBs | Metals | TCLP (Full) | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 67W @ 3-5' | 8/10 | 11:30a | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 67W | 8/10 | 11:50a | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 66W @ 3-5' | 8/10 | 12:15p | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 66W | 8/10 | 12:30p | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Paul Leeger | EEE | 8/10/12 2:00pm | Steve Sun | TA | 8/10/12 1400 |
| Steve Sun | TA | 8/10/12 1700 | Debbie Watson | TA Pitt | |
| | | | Received in Laboratory by: | | |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13351-1

**Login Number: 13351**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13351-1

**Login Number: 13351**
**List Number: 1**
**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**
**List Creation: 08/15/12 01:00 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13351-1

**Login Number: 13351**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

**List Source: TestAmerica Pittsburgh**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13443-1
Client Project/Site: Midtown Tunnel (MTT-MLK)
Revision: 1

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

*Authorized for release by:*
*9/10/2012 4:58:25 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 5
Certification Summary . . . . . 6
Sample Summary . . . . . 9
Method Summary . . . . . 10
Client Sample Results . . . . . 11
QC Sample Results . . . . . 42
QC Association . . . . . 73
Chain of Custody . . . . . 85
Receipt Checklists . . . . . 88

## Job ID: 180-13443-1

### Laboratory: TestAmerica Pittsburgh

**Narrative**

**Job Narrative**
**180-13443-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/15/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 1.9º C, 2.1º C, 2.7º C, 3.1º C, 3.4º C, 4.8º C and 5.3º C.

Except:

Samples 14WD@2-4' , 14WD and TRIP BLANK were received in the shipment; however these samples were not indicated on the COC. Samples were logged for analyses.

**GC/MS VOA**
Method(s) 8260B: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 45524 exceeded control limits for the following analytes: 1,2,4-Trichlorobenzene, 1,1,2,2-Tetrachloroethane. Since these are not control compounds, the LCS/LCSD is considered to have passed.

No other analytical or quality issues were noted.

**GC/MS Semi VOA**
Method(s) 8270C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 46200 exceeded control limits for the following analytes: Atrazine. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270C: The following sample(s) was diluted due to sample matrix OR abundance of target analytes OR abundance of non-target analytes: 180-13451-1 MS, 180-13451-1 MSD. As such, surrogate and spike recoveries were diluted out and are not reported.

No other analytical or quality issues were noted.

**GC VOA**
No analytical or quality issues were noted.

**GC Semi VOA**
Method(s) 8015B: The surrogate recovery for the blank associated with batch 247172 was outside recovery limits. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: 180-13443-22. 3520C 8015_DRO

Method(s) 8015B: The capping continuing calibration verification (CCV) for analytical batch 247756 exceeded control criteria for OTP. The data have been qualified and reported. CCV exceedances for non-requested analytes do not impact data quality. The CCV was marginally high biased for this analyte. This was the second analysis where the capping CCV failed high biased after running these samples.

Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: 180-13443-15, 180-13443-23. 3520C 8015DRO

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13443-15, 180-13443-23. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

No other analytical or quality issues were noted.

**Metals**
No analytical or quality issues were noted.

## Job ID: 180-13443-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

**General Chemistry**

Method(s) 1664A: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: 180-13443-15, 180-13443-17 and 180-13443-23. The reporting limits (RLs) have been adjusted proportionately.

No other analytical or quality issues were noted.

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| * | LCS or LCSD exceeds the control limits |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| * | 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 VOA

| Qualifier | Qualifier Description |
|---|---|
| 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

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| H | Sample was prepped or analyzed beyond the specified holding time |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-12 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-12 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Solid | 08/13/12 10:30 | 08/15/12 09:00 |
| 180-13443-2 | 42W | Water | 08/13/12 10:45 | 08/15/12 09:00 |
| 180-13443-3 | 47W@2-4' | Solid | 08/13/12 09:15 | 08/15/12 09:00 |
| 180-13443-4 | 47W | Water | 08/13/12 09:30 | 08/15/12 09:00 |
| 180-13443-5 | 52W@2-4' | Solid | 08/13/12 01:40 | 08/15/12 09:00 |
| 180-13443-6 | 52W | Water | 08/13/12 02:00 | 08/15/12 09:00 |
| 180-13443-7 | 53W@4-6' | Solid | 08/13/12 12:00 | 08/15/12 09:00 |
| 180-13443-8 | 53W | Water | 08/13/12 12:30 | 08/15/12 09:00 |
| 180-13443-9 | 54W@2-4' | Solid | 08/13/12 11:30 | 08/15/12 09:00 |
| 180-13443-10 | 54W | Water | 08/13/12 11:50 | 08/15/12 09:00 |
| 180-13443-11 | 55W@3-5' | Solid | 08/13/12 03:15 | 08/15/12 09:00 |
| 180-13443-12 | 55W | Water | 08/13/12 03:30 | 08/15/12 09:00 |
| 180-13443-13 | 56@2-4' | Solid | 08/13/12 02:45 | 08/15/12 09:00 |
| 180-13443-14 | 14W@2-4' | Solid | 08/14/12 09:30 | 08/15/12 09:00 |
| 180-13443-15 | 14W | Water | 08/14/12 09:50 | 08/15/12 09:00 |
| 180-13443-16 | 25W@2-4' | Solid | 08/14/12 08:30 | 08/15/12 09:00 |
| 180-13443-17 | 25W | Water | 08/14/12 09:00 | 08/15/12 09:00 |
| 180-13443-18 | 48W@3-5' | Solid | 08/14/12 11:00 | 08/15/12 09:00 |
| 180-13443-19 | 48W | Water | 08/14/12 11:40 | 08/15/12 09:00 |
| 180-13443-20 | 51W@8-10' | Solid | 08/14/12 12:00 | 08/15/12 09:00 |
| 180-13443-21 | 51W | Water | 08/14/12 12:30 | 08/15/12 09:00 |
| 180-13443-22 | 14WD@2-4' | Solid | 08/14/12 09:30 | 08/15/12 09:00 |
| 180-13443-23 | 14WD | Water | 08/14/12 09:50 | 08/15/12 09:00 |
| 180-13443-24 | TRIP BLANK | Water | 08/14/12 00:00 | 08/15/12 09:00 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL SAV |
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8260B | Volatile Organic Compounds by GC/MS | SW846 | TAL PIT |
| 8270C | Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | SW846 | TAL PIT |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |
| 6010B | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |
| 7471A | Mercury (CVAA) | SW846 | TAL PIT |
| 1020B | Ignitability, Small Scale Closed-Cup Method | SW846 | TAL PIT |
| 1664A | HEM and SGT-HEM | 1664A | TAL PIT |
| 9012A | Cyanide, Total and/or Amenable | SW846 | TAL PIT |
| 9020B | Organic Halides, Total (TOX) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9034 | Sulfide, Acid soluble and Insoluble (Titrimetric) | SW846 | TAL PIT |
| 9045C | pH | SW846 | TAL PIT |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

# Client Sample Results

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 42W@2-4'

**Date Collected: 08/13/12 10:30**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-1

**Matrix: Solid**
**Percent Solids: 80.5**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.9 | 0.86 | ug/Kg | ☼ | | 08/25/12 15:40 | 1 |
| Ethylbenzene | ND | | 5.9 | 1.5 | ug/Kg | ☼ | | 08/25/12 15:40 | 1 |
| Toluene | ND | | 5.9 | 0.99 | ug/Kg | ☼ | | 08/25/12 15:40 | 1 |
| Xylenes, Total | ND | | 12 | 1.3 | ug/Kg | ☼ | | 08/25/12 15:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *65 - 130* | | *08/25/12 15:40* | *1* |
| *Dibromofluoromethane* | *107* | | *65 - 130* | | *08/25/12 15:40* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *65 - 130* | | *08/25/12 15:40* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.31 | 0.024 | mg/Kg | ☼ | | 08/27/12 15:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *102* | | *70 - 131* | | *08/27/12 15:12* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **5.8** | | 4.1 | 2.6 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 17:50 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.7 | mg/Kg | ☼ | 09/05/12 13:28 | 09/05/12 13:48 | 1 |
| **HEM** | **66** | **J B** | 210 | 29 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **20** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| **Percent Solids** | **80** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 42W

**Date Collected: 08/13/12 10:45**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-2

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 20:13 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 20:13 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 20:13 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 20:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *113* | | *64 - 135* | | *08/18/12 20:13* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *71 - 118* | | *08/18/12 20:13* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 118* | | *08/18/12 20:13* | *1* |
| *Dibromofluoromethane (Surr)* | *119* | | *70 - 128* | | *08/18/12 20:13* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 14:54 | 1 |

## Client Sample ID: 42W

**Date Collected: 08/13/12 10:45**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-2

**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/23/12 14:54* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.43** | | 0.099 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 19:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *76* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 19:03* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.2** | **J B** | 5.2 | 1.5 | mg/L | | 09/04/12 11:34 | 09/04/12 11:34 | 1 |
| **Halogens, Total Organic** | **0.031** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| **TOX Result 1** | **0.030** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| **TOX Result 2** | **0.031** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

## Client Sample ID: 47W@2-4'

**Date Collected: 08/13/12 09:15**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-3

**Matrix: Solid**
**Percent Solids: 85.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.8 | 0.85 | ug/Kg | ☼ | | 08/25/12 16:03 | 1 |
| Ethylbenzene | ND | | 5.8 | 1.5 | ug/Kg | ☼ | | 08/25/12 16:03 | 1 |
| Toluene | ND | | 5.8 | 0.98 | ug/Kg | ☼ | | 08/25/12 16:03 | 1 |
| Xylenes, Total | ND | | 12 | 1.3 | ug/Kg | ☼ | | 08/25/12 16:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *65 - 130* | | *08/25/12 16:03* | *1* |
| *Dibromofluoromethane* | *105* | | *65 - 130* | | *08/25/12 16:03* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *65 - 130* | | *08/25/12 16:03* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/27/12 14:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *93* | | *70 - 131* | | *08/27/12 14:52* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **5.5** | | 3.9 | 2.5 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 18:04 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.2 | mg/Kg | ☼ | 09/05/12 13:28 | 09/05/12 13:48 | 1 |
| **HEM** | **54** | **J B** | 190 | 27 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **15** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| **Percent Solids** | **85** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 47W

**Lab Sample ID: 180-13443-4**

**Date Collected: 08/13/12 09:30**

**Matrix: Water**

**Date Received: 08/15/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 20:37 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 20:37 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 20:37 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 20:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 135* | | *08/18/12 20:37* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *71 - 118* | | *08/18/12 20:37* | *1* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 118* | | *08/18/12 20:37* | *1* |
| *Dibromofluoromethane (Surr)* | *116* | | *70 - 128* | | *08/18/12 20:37* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 15:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* | | *08/23/12 15:19* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.15** | | 0.098 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 19:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *63* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 19:17* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.2 | 1.5 | mg/L | | 09/04/12 11:34 | 09/04/12 11:34 | 1 |
| **Halogens, Total Organic** | **0.027** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| **TOX Result 1** | **0.029** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| **TOX Result 2** | **0.025** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

## Client Sample ID: 52W@2-4'

**Lab Sample ID: 180-13443-5**

**Date Collected: 08/13/12 01:40**

**Matrix: Solid**

**Date Received: 08/15/12 09:00**

**Percent Solids: 92.8**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 5.1 | 0.97 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Chloromethane | ND | | 5.1 | 1.0 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Vinyl chloride | ND | | 5.1 | 1.5 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Bromomethane | ND | | 5.1 | 1.5 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Chloroethane | ND | | 5.1 | 2.8 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Trichlorofluoromethane | ND | | 5.1 | 1.2 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,1-Dichloroethene | ND | | 5.1 | 1.5 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.1 | 1.3 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Acetone | ND | | 51 | 11 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Carbon disulfide | ND | | 5.1 | 1.1 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Methyl acetate | ND | | 10 | 5.1 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Methylene Chloride | ND | | 5.1 | 1.0 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.1 | 0.65 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Methyl tert-butyl ether | ND | | 10 | 1.0 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 52W@2-4'**
**Date Collected: 08/13/12 01:40**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-5**
**Matrix: Solid**
**Percent Solids: 92.8**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | | 5.1 | 1.1 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.1 | 1.4 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| **2-Butanone** | **6.0** | **J** | 26 | 2.5 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Chloroform | ND | | 5.1 | 1.1 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.1 | 0.61 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Cyclohexane | ND | | 10 | 1.3 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Carbon tetrachloride | ND | | 5.1 | 0.85 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Benzene | ND | | 5.1 | 0.75 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,2-Dichloroethane | ND | | 5.1 | 1.1 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Trichloroethene | ND | | 5.1 | 1.3 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Methylcyclohexane | ND | | 10 | 0.88 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,2-Dichloropropane | ND | | 5.1 | 0.88 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Bromodichloromethane | ND | | 5.1 | 1.0 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.1 | 0.85 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 4-Methyl-2-pentanone | ND | | 26 | 4.3 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Toluene | ND | | 5.1 | 0.86 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.1 | 1.3 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Tetrachloroethene | ND | | 5.1 | 2.0 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 2-Hexanone | ND | | 26 | 3.4 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Dibromochloromethane | ND | | 5.1 | 1.7 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Chlorobenzene | ND | | 5.1 | 0.99 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Ethylbenzene | ND | | 5.1 | 1.3 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Xylenes, Total | ND | | 10 | 1.1 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Styrene | ND | | 5.1 | 0.96 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Bromoform | ND | | 5.1 | 1.5 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| Isopropylbenzene | ND | | 5.1 | 2.0 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.1 | 1.6 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 4.5 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.1 | 1.6 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.1 | 1.3 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.1 | 0.89 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,2-Dibromoethane | ND | | 5.1 | 1.5 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.1 | 0.76 | ug/Kg | ☼ | | 08/25/12 16:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *96* | | *65 - 130* | | *08/25/12 16:26* | *1* |
| *4-Bromofluorobenzene* | *98* | | *65 - 130* | | *08/25/12 16:26* | *1* |
| *Dibromofluoromethane* | *102* | | *65 - 130* | | *08/25/12 16:26* | *1* |

## Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 08/23/12 06:30 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 08/23/12 06:30 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 08/23/12 06:30 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 08/23/12 06:30 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 08/23/12 06:30 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 08/23/12 06:30 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 08/23/12 06:30 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 08/23/12 06:30 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 08/23/12 06:30 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 08/23/12 06:30 | 40 |

**Client Sample ID: 52W@2-4'**
**Date Collected: 08/13/12 01:40**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-5**
**Matrix: Solid**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *89* | | *80 - 120* | | *08/23/12 06:30* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *113* | | *62 - 123* | | *08/23/12 06:30* | *40* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *75 - 120* | | *08/23/12 06:30* | *40* |
| *Dibromofluoromethane (Surr)* | *104* | | *80 - 120* | | *08/23/12 06:30* | *40* |

**Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/21/12 13:00 | 08/22/12 16:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *58* | | *19 - 138* | *08/21/12 13:00* | *08/22/12 16:35* | *1* |
| *2-Fluorobiphenyl* | *62* | | *35 - 115* | *08/21/12 13:00* | *08/22/12 16:35* | *1* |
| *2-Fluorophenol* | *76* | | *20 - 110* | *08/21/12 13:00* | *08/22/12 16:35* | *1* |
| *Nitrobenzene-d5* | *74* | | *39 - 115* | *08/21/12 13:00* | *08/22/12 16:35* | *1* |
| *Phenol-d5* | *79* | | *30 - 118* | *08/21/12 13:00* | *08/22/12 16:35* | *1* |
| *Terphenyl-d14* | *72* | | *30 - 143* | *08/21/12 13:00* | *08/22/12 16:35* | *1* |

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 72 | 6.9 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Acetophenone | ND | | 350 | 29 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Acenaphthylene | ND | | 72 | 8.2 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Anthracene | ND | | 72 | 7.0 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Benzo[a]anthracene | ND | | 72 | 8.9 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Benzo[a]pyrene | ND | | 72 | 7.1 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Benzo[b]fluoranthene | ND | | 72 | 11 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Benzo[g,h,i]perylene | ND | | 72 | 7.1 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Benzo[k]fluoranthene | ND | | 72 | 14 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Bis(2-chloroethyl)ether | ND | | 72 | 9.6 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 350 | 23 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 72 | 7.7 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| **Bis(2-ethylhexyl) phthalate** | **68** | **J** | 720 | 58 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 350 | 31 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Butyl benzyl phthalate | ND | | 350 | 49 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Carbazole | ND | | 72 | 6.6 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 4-Chloroaniline | ND | | 350 | 29 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2-Chloronaphthalene | ND | | 72 | 7.4 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 350 | 40 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Chrysene | ND | | 72 | 8.5 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Dibenz(a,h)anthracene | ND | | 72 | 7.9 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Dibenzofuran | ND | | 350 | 35 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 52W@2-4'**
**Date Collected: 08/13/12 01:40**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-5**
**Matrix: Solid**
**Percent Solids: 92.8**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Di-n-butyl phthalate | ND | | 350 | 45 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 350 | 38 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Diethyl phthalate | ND | | 350 | 39 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Dimethyl phthalate | ND | | 350 | 39 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2,4-Dinitrotoluene | ND | | 350 | 29 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2,6-Dinitrotoluene | ND | | 350 | 37 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Di-n-octyl phthalate | ND | | 350 | 38 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Fluoranthene | ND | | 72 | 7.6 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Fluorene | ND | | 72 | 9.4 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Hexachlorobenzene | ND | | 72 | 7.6 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Hexachlorobutadiene | ND | | 72 | 8.0 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Hexachlorocyclopentadiene | ND | | 350 | 38 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Hexachloroethane | ND | | 350 | 26 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 72 | 7.4 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Isophorone | ND | | 350 | 27 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2-Methylnaphthalene | ND | | 72 | 6.4 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Naphthalene | ND | | 72 | 6.2 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2-Nitroaniline | ND | | 1800 | 160 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 3-Nitroaniline | ND | | 1800 | 150 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 4-Nitroaniline | ND | | 1800 | 140 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Nitrobenzene | ND | | 720 | 30 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 72 | 8.4 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| N-Nitrosodiphenylamine | ND | | 350 | 33 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Phenanthrene | ND | | 72 | 11 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Pyrene | ND | | 72 | 7.2 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 4-Chloro-3-methylphenol | ND | | 350 | 33 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2-Chlorophenol | ND | | 350 | 29 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2-Methylphenol | ND | | 350 | 25 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2,4-Dichlorophenol | ND | | 72 | 7.2 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2,4-Dimethylphenol | ND | | 350 | 56 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2,4-Dinitrophenol | ND | | 1800 | 420 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1800 | 140 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2-Nitrophenol | ND | | 350 | 39 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 4-Nitrophenol | ND | | 1800 | 130 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Pentachlorophenol | ND | | 350 | 32 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Phenol | ND | | 72 | 8.4 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2,4,5-Trichlorophenol | ND | | 350 | 38 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 2,4,6-Trichlorophenol | ND | | 350 | 53 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| 1,1'-Biphenyl | ND | | 350 | 32 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Caprolactam | ND | | 1800 | 270 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Benzaldehyde | ND | | 350 | 53 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Atrazine | ND | * | 350 | 35 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |
| Methylphenol, 3 & 4 | ND | | 350 | 35 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *82* | | *25 - 104* | *08/24/12 10:44* | *08/25/12 15:10* | *1* |
| *2-Fluorobiphenyl* | *79* | | *35 - 105* | *08/24/12 10:44* | *08/25/12 15:10* | *1* |
| *Terphenyl-d14* | *84* | | *25 - 127* | *08/24/12 10:44* | *08/25/12 15:10* | *1* |
| *Phenol-d5* | *80* | | *25 - 105* | *08/24/12 10:44* | *08/25/12 15:10* | *1* |
| *2-Fluorophenol* | *81* | | *39 - 103* | *08/24/12 10:44* | *08/25/12 15:10* | *1* |
| *2,4,6-Tribromophenol* | *96* | | *35 - 124* | *08/24/12 10:44* | *08/25/12 15:10* | *1* |

**Client Sample ID: 52W@2-4'**
**Date Collected: 08/13/12 01:40**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-5**
**Matrix: Solid**
**Percent Solids: 92.8**

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.27 | 0.020 | mg/Kg | ☼ | | 08/27/12 15:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 131* | | *08/27/12 15:31* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **4.2** | | 3.5 | 2.3 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 18:19 | 1 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 18 | 2.7 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:25 | 1 |
| PCB-1221 | ND | | 18 | 3.4 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:25 | 1 |
| PCB-1232 | ND | | 18 | 3.1 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:25 | 1 |
| PCB-1242 | ND | | 18 | 2.9 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:25 | 1 |
| PCB-1248 | ND | | 18 | 1.7 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:25 | 1 |
| PCB-1254 | ND | | 18 | 2.6 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:25 | 1 |
| PCB-1260 | ND | | 18 | 2.6 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *61* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 15:25* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *65* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 15:25* | *1* |

## Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.65** | **J** | 1.0 | 0.23 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:06 | 1 |
| **Barium** | **9.3** | **J B** | 21 | 0.052 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:06 | 1 |
| Cadmium | ND | | 0.52 | 0.025 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:06 | 1 |
| **Chromium** | **4.7** | **B** | 0.52 | 0.088 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:06 | 1 |
| **Lead** | **2.5** | | 0.31 | 0.15 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:06 | 1 |
| Selenium | ND | | 0.52 | 0.21 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:06 | 1 |
| Silver | ND | | 0.52 | 0.060 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:06 | 1 |

## Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/22/12 10:51 | 08/25/12 04:02 | 1 |
| **Barium** | **0.22** | | 0.20 | 0.00062 | mg/L | | 08/22/12 10:51 | 08/25/12 04:02 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/22/12 10:51 | 08/25/12 04:02 | 1 |
| **Chromium** | **0.0019** | **J** | 0.050 | 0.00057 | mg/L | | 08/22/12 10:51 | 08/25/12 04:02 | 1 |
| **Lead** | **0.0098** | **J** | 0.050 | 0.0013 | mg/L | | 08/22/12 10:51 | 08/25/12 04:02 | 1 |
| **Selenium** | **0.0040** | **J B** | 0.050 | 0.0030 | mg/L | | 08/22/12 10:51 | 08/25/12 04:02 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/22/12 10:51 | 08/25/12 04:02 | 1 |

## Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/23/12 08:59 | 08/23/12 15:42 | 1 |

## Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.035 | 0.012 | mg/Kg | ☼ | 08/31/12 03:13 | 08/31/12 09:13 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 52W@2-4'

**Lab Sample ID: 180-13443-5**

**Date Collected: 08/13/12 01:40**

**Matrix: Solid**

**Date Received: 08/15/12 09:00**

**Percent Solids: 92.8**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.14 | J | 0.55 | 0.11 | mg/Kg | ☼ | 08/23/12 09:50 | 08/23/12 13:17 | 1 |
| Sulfide | 29 | J | 32 | 6.4 | mg/Kg | ☼ | 08/20/12 14:02 | 08/20/12 18:35 | 1 |
| HEM | 64 | J B | 180 | 25 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | >140 | | | | Degrees F | | | 08/23/12 15:02 | 1 |
| Flashpoint | >140 | | | | Degrees F | | | 08/23/12 15:02 | 1 |
| pH | 5.10 | H | 0.100 | 0.100 | SU | | | 09/01/12 10:01 | 1 |
| Percent Moisture | 7.2 | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| Percent Solids | 93 | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 52W

**Lab Sample ID: 180-13443-6**

**Date Collected: 08/13/12 02:00**

**Matrix: Water**

**Date Received: 08/15/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 5.0 | 2.5 | ug/L | | | 08/19/12 17:15 | 1 |
| Benzene | 0.29 | J | 1.0 | 0.11 | ug/L | | | 08/19/12 17:15 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.13 | ug/L | | | 08/19/12 17:15 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 08/19/12 17:15 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 08/19/12 17:15 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.55 | ug/L | | | 08/19/12 17:15 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 08/19/12 17:15 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 17:15 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 17:15 | 1 |
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 08/19/12 17:15 | 1 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | | | 08/19/12 17:15 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.18 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.12 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.30 | ug/L | | | 08/19/12 17:15 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 08/19/12 17:15 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 08/19/12 17:15 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 17:15 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 17:15 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.16 | ug/L | | | 08/19/12 17:15 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 17:15 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 08/19/12 17:15 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | * | 1.0 | 0.20 | ug/L | | | 08/19/12 17:15 | 1 |
| Tetrachloroethene | 0.17 | J | 1.0 | 0.15 | ug/L | | | 08/19/12 17:15 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.29 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 08/19/12 17:15 | 1 |
| Trichloroethene | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 17:15 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 08/19/12 17:15 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 17:15 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/19/12 17:15 | 1 |

**Client Sample ID: 52W**
**Date Collected: 08/13/12 02:00**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-6**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 08/19/12 17:15 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 08/19/12 17:15 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 08/19/12 17:15 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.16 | ug/L | | | 08/19/12 17:15 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 17:15 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 08/19/12 17:15 | 1 |
| **Methyl tert-butyl ether** | **12** | | 1.0 | 0.18 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.11 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 08/19/12 17:15 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 1.0 | 0.27 | ug/L | | | 08/19/12 17:15 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 08/19/12 17:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *111* | | *64 - 135* | | *08/19/12 17:15* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *71 - 118* | | *08/19/12 17:15* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 118* | | *08/19/12 17:15* | *1* |
| *Dibromofluoromethane (Surr)* | *113* | | *70 - 128* | | *08/19/12 17:15* | *1* |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Acetophenone | ND | | 9.6 | 0.77 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| **Benzo[a]anthracene** | **0.59** | **J** | 1.9 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| **Benzo[a]pyrene** | **0.33** | **J** | 1.9 | 0.13 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| **Benzo[b]fluoranthene** | **0.59** | **J** | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| **Benzo[g,h,i]perylene** | **0.61** | **J** | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| **Benzo[k]fluoranthene** | **0.64** | **J** | 1.9 | 0.53 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.6 | 0.56 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | 0.61 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Butyl benzyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 4-Chloroaniline | ND | | 9.6 | 0.85 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.6 | 0.48 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| **Chrysene** | **0.68** | **J** | 1.9 | 0.13 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| **Dibenz(a,h)anthracene** | **0.66** | **J** | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Dibenzofuran | ND | | 9.6 | 0.59 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Di-n-butyl phthalate | ND | | 9.6 | 1.2 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.6 | 1.1 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Diethyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Dimethyl phthalate | ND | | 9.6 | 0.74 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | 0.52 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.6 | 0.77 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Di-n-octyl phthalate | ND | | 9.6 | 2.0 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 52W**
**Date Collected: 08/13/12 02:00**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-6**
**Matrix: Water**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.6 | 0.50 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Hexachloroethane | ND | | 9.6 | 0.60 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **0.57** | **J** | 1.9 | 0.19 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Isophorone | ND | | 9.6 | 0.62 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.4 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Nitrobenzene | ND | | 19 | 0.81 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.6 | 0.82 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.6 | 0.73 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2-Chlorophenol | ND | | 9.6 | 1.6 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2-Methylphenol | ND | | 9.6 | 0.83 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2,4-Dimethylphenol | ND | | 9.6 | 0.82 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.9 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2-Nitrophenol | ND | | 9.6 | 1.6 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Pentachlorophenol | ND | | 9.6 | 0.64 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.6 | 1.5 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.6 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| 1,1'-Biphenyl | ND | | 9.6 | 0.40 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Benzaldehyde | ND | | 9.6 | 1.4 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Atrazine | ND | | 9.6 | 0.86 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.6 | 0.87 | ug/L | | 08/19/12 10:37 | 08/21/12 22:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *61* | | *37 - 104* | *08/19/12 10:37* | *08/21/12 22:42* | *1* |
| *2-Fluorobiphenyl* | *64* | | *35 - 108* | *08/19/12 10:37* | *08/21/12 22:42* | *1* |
| *Terphenyl-d14* | *70* | | *25 - 130* | *08/19/12 10:37* | *08/21/12 22:42* | *1* |
| *Phenol-d5* | *62* | | *30 - 102* | *08/19/12 10:37* | *08/21/12 22:42* | *1* |
| *2-Fluorophenol* | *62* | | *26 - 100* | *08/19/12 10:37* | *08/21/12 22:42* | *1* |
| *2,4,6-Tribromophenol* | *61* | | *33 - 122* | *08/19/12 10:37* | *08/21/12 22:42* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 15:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/23/12 15:45* | *1* |

## Client Sample ID: 52W

**Lab Sample ID: 180-13443-6**

**Date Collected: 08/13/12 02:00**

**Matrix: Water**

**Date Received: 08/15/12 09:00**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.24 | | 0.099 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 19:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *71* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 19:31* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 08/17/12 12:30 | 08/27/12 23:23 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 08/17/12 12:30 | 08/27/12 23:23 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 08/17/12 12:30 | 08/27/12 23:23 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 08/17/12 12:30 | 08/27/12 23:23 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 08/17/12 12:30 | 08/27/12 23:23 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 08/17/12 12:30 | 08/27/12 23:23 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 08/17/12 12:30 | 08/27/12 23:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *76* | | *35 - 140* | *08/17/12 12:30* | *08/27/12 23:23* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *53* | | *35 - 140* | *08/17/12 12:30* | *08/27/12 23:23* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 10 | 2.7 | ug/L | | 08/20/12 11:05 | 08/21/12 18:24 | 1 |
| Barium | 32 | J | 200 | 0.62 | ug/L | | 08/20/12 11:05 | 08/21/12 18:24 | 1 |
| Cadmium | 0.58 | J | 5.0 | 0.13 | ug/L | | 08/20/12 11:05 | 08/21/12 18:24 | 1 |
| Chromium | 1.6 | J | 5.0 | 0.57 | ug/L | | 08/20/12 11:05 | 08/21/12 18:24 | 1 |
| Lead | 1.9 | J | 3.0 | 1.3 | ug/L | | 08/20/12 11:05 | 08/21/12 18:24 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/20/12 11:05 | 08/21/12 18:24 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/20/12 11:05 | 08/21/12 18:24 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/31/12 11:21 | 08/31/12 15:16 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.2 | 1.5 | mg/L | | 09/04/12 11:34 | 09/04/12 11:34 | 1 |

## Client Sample ID: 53W@4-6'

**Lab Sample ID: 180-13443-7**

**Date Collected: 08/13/12 12:00**

**Matrix: Solid**

**Date Received: 08/15/12 09:00**

**Percent Solids: 91.1**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.3 | 0.78 | ug/Kg | ☼ | | 08/25/12 16:49 | 1 |
| Ethylbenzene | ND | | 5.3 | 1.4 | ug/Kg | ☼ | | 08/25/12 16:49 | 1 |
| Toluene | ND | | 5.3 | 0.90 | ug/Kg | ☼ | | 08/25/12 16:49 | 1 |
| Xylenes, Total | ND | | 11 | 1.2 | ug/Kg | ☼ | | 08/25/12 16:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *65 - 130* | | *08/25/12 16:49* | *1* |
| *Dibromofluoromethane* | *102* | | *65 - 130* | | *08/25/12 16:49* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *65 - 130* | | *08/25/12 16:49* | *1* |

## Client Sample ID: 53W@4-6'

**Lab Sample ID: 180-13443-7**
**Date Collected: 08/13/12 12:00**
**Matrix: Solid**
**Date Received: 08/15/12 09:00**
**Percent Solids: 91.1**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.27 | 0.021 | mg/Kg | ☼ | | 08/24/12 17:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 131* | | *08/24/12 17:41* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **4.8** | | 3.6 | 2.3 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 18:33 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.7 | mg/Kg | ☼ | 09/05/12 13:28 | 09/05/12 13:48 | 1 |
| **HEM** | **230** | **B** | 180 | 25 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **8.9** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| **Percent Solids** | **91** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 53W

**Lab Sample ID: 180-13443-8**
**Date Collected: 08/13/12 12:30**
**Matrix: Water**
**Date Received: 08/15/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 21:00 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 21:00 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 21:00 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 21:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *64 - 135* | | *08/18/12 21:00* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *71 - 118* | | *08/18/12 21:00* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 118* | | *08/18/12 21:00* | *1* |
| *Dibromofluoromethane (Surr)* | *120* | | *70 - 128* | | *08/18/12 21:00* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.012** | **J** | 0.050 | 0.011 | mg/L | | | 08/23/12 16:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/23/12 16:10* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.33** | | 0.097 | 0.048 | mg/L | | 08/20/12 15:02 | 08/29/12 21:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *76* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 21:10* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **1.8** | **J B** | 5.2 | 1.5 | mg/L | | 09/04/12 11:34 | 09/04/12 11:34 | 1 |
| **Halogens, Total Organic** | **0.020** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

## Client Sample ID: 53W

**Date Collected: 08/13/12 12:30**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-8

**Matrix: Water**

### General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.021 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| TOX Result 2 | 0.018 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

## Client Sample ID: 54W@2-4'

**Date Collected: 08/13/12 11:30**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-9

**Matrix: Solid**
**Percent Solids: 81.8**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.9 | 0.86 | ug/Kg | ☼ | | 08/25/12 17:12 | 1 |
| Ethylbenzene | ND | | 5.9 | 1.5 | ug/Kg | ☼ | | 08/25/12 17:12 | 1 |
| Toluene | ND | | 5.9 | 0.99 | ug/Kg | ☼ | | 08/25/12 17:12 | 1 |
| Xylenes, Total | ND | | 12 | 1.3 | ug/Kg | ☼ | | 08/25/12 17:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *65 - 130* | | *08/25/12 17:12* | *1* |
| *Dibromofluoromethane* | *104* | | *65 - 130* | | *08/25/12 17:12* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *65 - 130* | | *08/25/12 17:12* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.31 | 0.023 | mg/Kg | ☼ | | 08/27/12 15:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 131* | | *08/27/12 15:51* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 4.8 | | 4.0 | 2.6 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 18:47 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.6 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| HEM | 45 | J B | 200 | 28 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 18 | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| Percent Solids | 82 | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 54W

**Date Collected: 08/13/12 11:50**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-10

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 5.2 | | 1.0 | 0.11 | ug/L | | | 08/18/12 21:24 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 21:24 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 21:24 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 21:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *112* | | *64 - 135* | | *08/18/12 21:24* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *71 - 118* | | *08/18/12 21:24* | *1* |

## Client Sample ID: 54W

**Date Collected: 08/13/12 11:50**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-10

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 118* | | *08/18/12 21:24* | *1* |
| *Dibromofluoromethane (Surr)* | *122* | | *70 - 128* | | *08/18/12 21:24* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.011** | **J** | 0.050 | 0.011 | mg/L | | | 08/23/12 16:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 130* | | *08/23/12 16:36* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.33** | | 0.099 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 21:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *78* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 21:24* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.2 | 1.5 | mg/L | | 09/05/12 10:53 | 09/05/12 10:53 | 1 |
| **Halogens, Total Organic** | **0.039** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| **TOX Result 1** | **0.039** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| **TOX Result 2** | **0.039** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

## Client Sample ID: 55W@3-5'

**Date Collected: 08/13/12 03:15**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-11

**Matrix: Solid**
**Percent Solids: 93.3**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.3 | 0.78 | ug/Kg | ☼ | | 08/25/12 17:35 | 1 |
| Ethylbenzene | ND | | 5.3 | 1.4 | ug/Kg | ☼ | | 08/25/12 17:35 | 1 |
| Toluene | ND | | 5.3 | 0.89 | ug/Kg | ☼ | | 08/25/12 17:35 | 1 |
| Xylenes, Total | ND | | 11 | 1.2 | ug/Kg | ☼ | | 08/25/12 17:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *65 - 130* | | *08/25/12 17:35* | *1* |
| *Dibromofluoromethane* | *104* | | *65 - 130* | | *08/25/12 17:35* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *65 - 130* | | *08/25/12 17:35* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.27 | 0.020 | mg/Kg | ☼ | | 08/24/12 18:21 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 131* | | *08/24/12 18:21* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **4.9** | | 3.5 | 2.2 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 19:00 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 55W@3-5'

**Lab Sample ID: 180-13443-11**
**Date Collected: 08/13/12 03:15**
**Matrix: Solid**
**Date Received: 08/15/12 09:00**
**Percent Solids: 93.3**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 17 | | 11 | 7.5 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| HEM | 43 | J B | 180 | 25 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 6.7 | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| Percent Solids | 93 | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 55W

**Lab Sample ID: 180-13443-12**
**Date Collected: 08/13/12 03:30**
**Matrix: Water**
**Date Received: 08/15/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 21:48 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 21:48 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 21:48 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 21:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *113* | | *64 - 135* | | *08/18/12 21:48* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *71 - 118* | | *08/18/12 21:48* | *1* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *70 - 118* | | *08/18/12 21:48* | *1* |
| *Dibromofluoromethane (Surr)* | *119* | | *70 - 128* | | *08/18/12 21:48* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 17:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *98* | | *70 - 130* | | *08/23/12 17:01* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.29 | | 0.099 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 21:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *70* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 21:38* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.2 | 1.5 | mg/L | | 09/05/12 10:53 | 09/05/12 10:53 | 1 |
| Halogens, Total Organic | 0.037 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| TOX Result 1 | 0.039 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| TOX Result 2 | 0.034 | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

## Client Sample ID: 56@2-4'

**Lab Sample ID: 180-13443-13**
**Date Collected: 08/13/12 02:45**
**Matrix: Solid**
**Date Received: 08/15/12 09:00**
**Percent Solids: 93.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.3 | 0.77 | ug/Kg | ☼ | | 08/25/12 17:58 | 1 |
| Ethylbenzene | ND | | 5.3 | 1.4 | ug/Kg | ☼ | | 08/25/12 17:58 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 56@2-4'

**Date Collected: 08/13/12 02:45**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-13

**Matrix: Solid**
**Percent Solids: 93.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 5.3 | 0.89 | ug/Kg | ☼ | | 08/25/12 17:58 | 1 |
| Xylenes, Total | ND | | 11 | 1.2 | ug/Kg | ☼ | | 08/25/12 17:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *65 - 130* | | *08/25/12 17:58* | *1* |
| *Dibromofluoromethane* | *105* | | *65 - 130* | | *08/25/12 17:58* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *65 - 130* | | *08/25/12 17:58* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.27 | 0.020 | mg/Kg | ☼ | | 08/24/12 18:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 131* | | *08/24/12 18:40* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **5.7** | | 3.5 | 2.2 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 19:15 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.5 | mg/Kg | ☼ | 09/05/12 13:28 | 09/05/12 13:48 | 1 |
| **HEM** | **25** | **J B** | 180 | 25 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **6.8** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| **Percent Solids** | **93** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 14W@2-4'

**Date Collected: 08/14/12 09:30**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-14

**Matrix: Solid**
**Percent Solids: 81.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.9 | 0.87 | ug/Kg | ☼ | | 08/25/12 18:21 | 1 |
| Ethylbenzene | ND | | 5.9 | 1.5 | ug/Kg | ☼ | | 08/25/12 18:21 | 1 |
| Toluene | ND | | 5.9 | 1.0 | ug/Kg | ☼ | | 08/25/12 18:21 | 1 |
| Xylenes, Total | ND | | 12 | 1.3 | ug/Kg | ☼ | | 08/25/12 18:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *65 - 130* | | *08/25/12 18:21* | *1* |
| *Dibromofluoromethane* | *99* | | *65 - 130* | | *08/25/12 18:21* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *65 - 130* | | *08/25/12 18:21* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.31 | 0.023 | mg/Kg | ☼ | | 08/24/12 19:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *94* | | *70 - 131* | | *08/24/12 19:00* | *1* |

## Client Sample ID: 14W@2-4'

**Lab Sample ID: 180-13443-14**

**Date Collected: 08/14/12 09:30**
**Matrix: Solid**
**Date Received: 08/15/12 09:00**
**Percent Solids: 81.9**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **5.5** | | 4.0 | 2.5 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 19:28 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.5 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| **HEM** | **41** | **J B** | 200 | 28 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **18** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| **Percent Solids** | **82** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 14W

**Lab Sample ID: 180-13443-15**

**Date Collected: 08/14/12 09:50**
**Matrix: Water**
**Date Received: 08/15/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/19/12 17:39 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 17:39 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 17:39 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/19/12 17:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *112* | | *64 - 135* | | *08/19/12 17:39* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *71 - 118* | | *08/19/12 17:39* | *1* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *70 - 118* | | *08/19/12 17:39* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *70 - 128* | | *08/19/12 17:39* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 17:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 130* | | *08/23/12 17:27* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.20** | | 0.097 | 0.048 | mg/L | | 08/20/12 15:02 | 08/29/12 21:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *50* | *X* | *62 - 130* | *08/20/12 15:02* | *08/29/12 21:52* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 20 | 6.0 | mg/L | | 09/05/12 10:53 | 09/05/12 10:53 | 1 |
| **Halogens, Total Organic** | **0.071** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 1** | **0.076** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| **TOX Result 2** | **0.066** | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 25W@2-4'

**Lab Sample ID: 180-13443-16**

**Date Collected: 08/14/12 08:30**
**Matrix: Solid**
**Date Received: 08/15/12 09:00**
**Percent Solids: 88.1**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.4 | 0.80 | ug/Kg | ☼ | | 08/25/12 18:45 | 1 |
| Ethylbenzene | ND | | 5.4 | 1.4 | ug/Kg | ☼ | | 08/25/12 18:45 | 1 |
| Toluene | ND | | 5.4 | 0.92 | ug/Kg | ☼ | | 08/25/12 18:45 | 1 |
| Xylenes, Total | ND | | 11 | 1.2 | ug/Kg | ☼ | | 08/25/12 18:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *65 - 130* | | *08/25/12 18:45* | *1* |
| *Dibromofluoromethane* | *103* | | *65 - 130* | | *08/25/12 18:45* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *65 - 130* | | *08/25/12 18:45* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.28 | 0.022 | mg/Kg | ☼ | | 08/24/12 19:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 131* | | *08/24/12 19:21* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **8.7** | | 3.7 | 2.4 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 19:42 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.9 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| **HEM** | **57** | **J B** | 190 | 26 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **12** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| **Percent Solids** | **88** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 25W

**Lab Sample ID: 180-13443-17**

**Date Collected: 08/14/12 09:00**
**Matrix: Water**
**Date Received: 08/15/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/19/12 18:03 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 18:03 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 18:03 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/19/12 18:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *116* | | *64 - 135* | | *08/19/12 18:03* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *71 - 118* | | *08/19/12 18:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 118* | | *08/19/12 18:03* | *1* |
| *Dibromofluoromethane (Surr)* | *122* | | *70 - 128* | | *08/19/12 18:03* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 17:53 | 1 |

## Client Sample ID: 25W

**Date Collected: 08/14/12 09:00**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-17

**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/23/12 17:53* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.47** | | 0.098 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 22:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *70* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 22:06* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 20 | 6.0 | mg/L | | 09/05/12 10:53 | 09/05/12 10:53 | 1 |
| **Halogens, Total Organic** | **0.087** | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |
| **TOX Result 1** | **0.090** | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |
| **TOX Result 2** | **0.083** | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |

## Client Sample ID: 48W@3-5'

**Date Collected: 08/14/12 11:00**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-18

**Matrix: Solid**
**Percent Solids: 88.8**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.5 | 0.81 | ug/Kg | ☼ | | 08/25/12 19:08 | 1 |
| Ethylbenzene | ND | | 5.5 | 1.4 | ug/Kg | ☼ | | 08/25/12 19:08 | 1 |
| Toluene | ND | | 5.5 | 0.93 | ug/Kg | ☼ | | 08/25/12 19:08 | 1 |
| Xylenes, Total | ND | | 11 | 1.2 | ug/Kg | ☼ | | 08/25/12 19:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *65 - 130* | | *08/25/12 19:08* | *1* |
| *Dibromofluoromethane* | *103* | | *65 - 130* | | *08/25/12 19:08* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *65 - 130* | | *08/25/12 19:08* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.28 | 0.021 | mg/Kg | ☼ | | 08/24/12 19:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *90* | | *70 - 131* | | *08/24/12 19:40* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2.8** | **J** | 3.7 | 2.4 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 19:56 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.9 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| **HEM** | **37** | **J B** | 190 | 26 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **11** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| **Percent Solids** | **89** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 48W

**Date Collected: 08/14/12 11:40**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-19

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/19/12 18:52 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 18:52 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 18:52 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/19/12 18:52 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *112* | | *64 - 135* | | *08/19/12 18:52* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *71 - 118* | | *08/19/12 18:52* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 118* | | *08/19/12 18:52* | *1* |
| *Dibromofluoromethane (Surr)* | *114* | | *70 - 128* | | *08/19/12 18:52* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.029 | J | 0.050 | 0.011 | mg/L | | | 08/23/12 18:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *98* | | *70 - 130* | | *08/23/12 18:18* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.65 | | 0.098 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 22:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *72* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 22:20* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 1.8 | J B | 5.2 | 1.5 | mg/L | | 09/04/12 11:34 | 09/04/12 11:34 | 1 |
| Halogens, Total Organic | 0.054 | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |
| TOX Result 1 | 0.051 | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |
| TOX Result 2 | 0.056 | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |

## Client Sample ID: 51W@8-10'

**Date Collected: 08/14/12 12:00**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-20

**Matrix: Solid**
**Percent Solids: 75.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 6.3 | 1.2 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Chloromethane | ND | | 6.3 | 1.3 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Vinyl chloride | ND | | 6.3 | 1.9 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Bromomethane | ND | | 6.3 | 1.9 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Chloroethane | ND | | 6.3 | 3.4 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Trichlorofluoromethane | ND | | 6.3 | 1.5 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,1-Dichloroethene | ND | | 6.3 | 1.9 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.3 | 1.6 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Acetone | 22 | J | 63 | 14 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Carbon disulfide | 3.2 | J | 6.3 | 1.4 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Methyl acetate | ND | | 13 | 6.3 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Methylene Chloride | ND | | 6.3 | 1.2 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| trans-1,2-Dichloroethene | ND | | 6.3 | 0.79 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Methyl tert-butyl ether | 3.4 | J | 13 | 1.3 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 51W@8-10'**
**Date Collected: 08/14/12 12:00**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-20**
**Matrix: Solid**
**Percent Solids: 75.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | | 6.3 | 1.4 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| cis-1,2-Dichloroethene | ND | | 6.3 | 1.8 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| **2-Butanone** | **5.1** | **J** | 31 | 3.0 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Chloroform | ND | | 6.3 | 1.4 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,1,1-Trichloroethane | ND | | 6.3 | 0.74 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Cyclohexane | ND | | 13 | 1.6 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Carbon tetrachloride | ND | | 6.3 | 1.0 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| **Benzene** | **1.2** | **J** | 6.3 | 0.92 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,2-Dichloroethane | ND | | 6.3 | 1.4 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Trichloroethene | ND | | 6.3 | 1.6 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| **Methylcyclohexane** | **3.3** | **J** | 13 | 1.1 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,2-Dichloropropane | ND | | 6.3 | 1.1 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Bromodichloromethane | ND | | 6.3 | 1.2 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| cis-1,3-Dichloropropene | ND | | 6.3 | 1.0 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 4-Methyl-2-pentanone | ND | | 31 | 5.3 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Toluene | ND | | 6.3 | 1.1 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,1,2-Trichloroethane | ND | | 6.3 | 1.6 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Tetrachloroethene | ND | | 6.3 | 2.4 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 2-Hexanone | ND | | 31 | 4.1 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Dibromochloromethane | ND | | 6.3 | 2.1 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Chlorobenzene | ND | | 6.3 | 1.2 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Ethylbenzene | ND | | 6.3 | 1.6 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Xylenes, Total | ND | | 13 | 1.4 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Styrene | ND | | 6.3 | 1.2 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Bromoform | ND | | 6.3 | 1.9 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| Isopropylbenzene | ND | | 6.3 | 2.4 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.3 | 2.0 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 13 | 5.5 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,3-Dichlorobenzene | ND | | 6.3 | 2.0 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,2-Dichlorobenzene | ND | | 6.3 | 1.6 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| trans-1,3-Dichloropropene | ND | | 6.3 | 1.1 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,2-Dibromoethane | ND | | 6.3 | 1.9 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |
| 1,4-Dichlorobenzene | ND | | 6.3 | 0.93 | ug/Kg | ☼ | | 08/25/12 19:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *94* | | *65 - 130* | | *08/25/12 19:31* | *1* |
| *4-Bromofluorobenzene* | *95* | | *65 - 130* | | *08/25/12 19:31* | *1* |
| *Dibromofluoromethane* | *100* | | *65 - 130* | | *08/25/12 19:31* | *1* |

## Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 08/23/12 06:57 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 08/23/12 06:57 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 08/23/12 06:57 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 08/23/12 06:57 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 08/23/12 06:57 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 08/23/12 06:57 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 08/23/12 06:57 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 08/23/12 06:57 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 08/23/12 06:57 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 08/23/12 06:57 | 40 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 51W@8-10'**
**Date Collected: 08/14/12 12:00**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-20**
**Matrix: Solid**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *90* | | *80 - 120* | | *08/23/12 06:57* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *62 - 123* | | *08/23/12 06:57* | *40* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *75 - 120* | | *08/23/12 06:57* | *40* |
| *Dibromofluoromethane (Surr)* | *105* | | *80 - 120* | | *08/23/12 06:57* | *40* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/21/12 13:00 | 08/22/12 16:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *54* | | *19 - 138* | *08/21/12 13:00* | *08/22/12 16:56* | *1* |
| *2-Fluorobiphenyl* | *66* | | *35 - 115* | *08/21/12 13:00* | *08/22/12 16:56* | *1* |
| *2-Fluorophenol* | *70* | | *20 - 110* | *08/21/12 13:00* | *08/22/12 16:56* | *1* |
| *Nitrobenzene-d5* | *72* | | *39 - 115* | *08/21/12 13:00* | *08/22/12 16:56* | *1* |
| *Phenol-d5* | *78* | | *30 - 118* | *08/21/12 13:00* | *08/22/12 16:56* | *1* |
| *Terphenyl-d14* | *68* | | *30 - 143* | *08/21/12 13:00* | *08/22/12 16:56* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 87 | 8.3 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Acetophenone | ND | | 430 | 36 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Acenaphthylene | ND | | 87 | 9.9 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Anthracene | ND | | 87 | 8.5 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Benzo[a]anthracene | ND | | 87 | 11 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Benzo[a]pyrene | ND | | 87 | 8.7 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Benzo[b]fluoranthene | ND | | 87 | 14 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Benzo[g,h,i]perylene | ND | | 87 | 8.6 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Benzo[k]fluoranthene | ND | | 87 | 18 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Bis(2-chloroethyl)ether | ND | | 87 | 12 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 430 | 29 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 87 | 9.4 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 870 | 70 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 430 | 38 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Butyl benzyl phthalate | ND | | 430 | 59 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Carbazole | ND | | 87 | 8.0 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 4-Chloroaniline | ND | | 430 | 35 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2-Chloronaphthalene | ND | | 87 | 9.1 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 430 | 48 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Chrysene | ND | | 87 | 10 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Dibenz(a,h)anthracene | ND | | 87 | 9.6 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Dibenzofuran | ND | | 430 | 43 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 51W@8-10'**
**Date Collected: 08/14/12 12:00**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-20**
**Matrix: Solid**
**Percent Solids: 75.9**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Di-n-butyl phthalate | ND | | 430 | 54 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 430 | 46 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Diethyl phthalate | ND | | 430 | 47 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Dimethyl phthalate | ND | | 430 | 47 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2,4-Dinitrotoluene | ND | | 430 | 35 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2,6-Dinitrotoluene | ND | | 430 | 45 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Di-n-octyl phthalate | ND | | 430 | 46 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Fluoranthene | ND | | 87 | 9.3 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Fluorene | ND | | 87 | 11 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Hexachlorobenzene | ND | | 87 | 9.2 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Hexachlorobutadiene | ND | | 87 | 9.7 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Hexachlorocyclopentadiene | ND | | 430 | 47 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Hexachloroethane | ND | | 430 | 31 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 87 | 8.9 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Isophorone | ND | | 430 | 33 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2-Methylnaphthalene | ND | | 87 | 7.8 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Naphthalene | ND | | 87 | 7.5 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2-Nitroaniline | ND | | 2200 | 190 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 3-Nitroaniline | ND | | 2200 | 180 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 4-Nitroaniline | ND | | 2200 | 180 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Nitrobenzene | ND | | 870 | 36 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 87 | 10 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| **N-Nitrosodiphenylamine** | **85** | **J** | 430 | 40 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Phenanthrene | ND | | 87 | 14 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Pyrene | ND | | 87 | 8.8 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 4-Chloro-3-methylphenol | ND | | 430 | 40 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2-Chlorophenol | ND | | 430 | 35 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2-Methylphenol | ND | | 430 | 30 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2,4-Dichlorophenol | ND | | 87 | 8.7 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2,4-Dimethylphenol | ND | | 430 | 68 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2,4-Dinitrophenol | ND | | 2200 | 520 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2200 | 170 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2-Nitrophenol | ND | | 430 | 48 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 4-Nitrophenol | ND | | 2200 | 160 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Pentachlorophenol | ND | | 430 | 39 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Phenol | ND | | 87 | 10 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2,4,5-Trichlorophenol | ND | | 430 | 46 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 2,4,6-Trichlorophenol | ND | | 430 | 65 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| 1,1'-Biphenyl | ND | | 430 | 39 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Caprolactam | ND | | 2200 | 330 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Benzaldehyde | ND | | 430 | 65 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Atrazine | ND | * | 430 | 42 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |
| Methylphenol, 3 & 4 | ND | | 430 | 42 | ug/Kg | ☼ | 08/24/12 10:44 | 08/25/12 15:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *85* | | *25 - 104* | *08/24/12 10:44* | *08/25/12 15:31* | *1* |
| *2-Fluorobiphenyl* | *82* | | *35 - 105* | *08/24/12 10:44* | *08/25/12 15:31* | *1* |
| *Terphenyl-d14* | *90* | | *25 - 127* | *08/24/12 10:44* | *08/25/12 15:31* | *1* |
| *Phenol-d5* | *84* | | *25 - 105* | *08/24/12 10:44* | *08/25/12 15:31* | *1* |
| *2-Fluorophenol* | *85* | | *39 - 103* | *08/24/12 10:44* | *08/25/12 15:31* | *1* |
| *2,4,6-Tribromophenol* | *101* | | *35 - 124* | *08/24/12 10:44* | *08/25/12 15:31* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 51W@8-10'**
**Date Collected: 08/14/12 12:00**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-20**
**Matrix: Solid**
**Percent Solids: 75.9**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.33 | 0.025 | mg/Kg | ☼ | | 08/27/12 16:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *93* | | *70 - 131* | | *08/27/12 16:10* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **4.6** | | 4.3 | 2.8 | mg/Kg | ☼ | 08/21/12 14:46 | 08/24/12 20:10 | 1 |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 22 | 3.2 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:53 | 1 |
| PCB-1221 | ND | | 22 | 4.1 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:53 | 1 |
| PCB-1232 | ND | | 22 | 3.7 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:53 | 1 |
| PCB-1242 | ND | | 22 | 3.5 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:53 | 1 |
| PCB-1248 | ND | | 22 | 2.0 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:53 | 1 |
| PCB-1254 | ND | | 22 | 3.1 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:53 | 1 |
| PCB-1260 | ND | | 22 | 3.1 | ug/Kg | ☼ | 08/18/12 05:50 | 08/27/12 15:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *67* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 15:53* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *70* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 15:53* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.0** | | 1.1 | 0.24 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:11 | 1 |
| **Barium** | **7.1** | **J B** | 21 | 0.053 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:11 | 1 |
| **Cadmium** | **0.046** | **J** | 0.53 | 0.026 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:11 | 1 |
| **Chromium** | **5.3** | **B** | 0.53 | 0.090 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:11 | 1 |
| **Lead** | **2.2** | | 0.32 | 0.15 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:11 | 1 |
| **Selenium** | **0.22** | **J** | 0.53 | 0.22 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:11 | 1 |
| Silver | ND | | 0.53 | 0.062 | mg/Kg | ☼ | 08/24/12 11:43 | 08/25/12 13:11 | 1 |

### Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/22/12 10:51 | 08/25/12 04:18 | 1 |
| **Barium** | **0.13** | **J** | 0.20 | 0.00062 | mg/L | | 08/22/12 10:51 | 08/25/12 04:18 | 1 |
| **Cadmium** | **0.00096** | **J B** | 0.050 | 0.00013 | mg/L | | 08/22/12 10:51 | 08/25/12 04:18 | 1 |
| **Chromium** | **0.0012** | **J** | 0.050 | 0.00057 | mg/L | | 08/22/12 10:51 | 08/25/12 04:18 | 1 |
| **Lead** | **0.0075** | **J** | 0.050 | 0.0013 | mg/L | | 08/22/12 10:51 | 08/25/12 04:18 | 1 |
| **Selenium** | **0.0067** | **J B** | 0.050 | 0.0030 | mg/L | | 08/22/12 10:51 | 08/25/12 04:18 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/22/12 10:51 | 08/25/12 04:18 | 1 |

### Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/23/12 08:59 | 08/23/12 15:43 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.042 | 0.014 | mg/Kg | ☼ | 08/31/12 03:13 | 08/31/12 09:14 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 51W@8-10'

**Lab Sample ID: 180-13443-20**
**Date Collected: 08/14/12 12:00**
**Matrix: Solid**
**Date Received: 08/15/12 09:00**
**Percent Solids: 75.9**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.31 | J | 0.65 | 0.13 | mg/Kg | ☼ | 08/23/12 09:50 | 08/23/12 13:17 | 1 |
| Sulfide | 45 | | 39 | 7.9 | mg/Kg | ☼ | 08/20/12 14:02 | 08/20/12 18:35 | 1 |
| HEM | 290 | B | 220 | 30 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ignitability | >140 | | | | Degrees F | | | 08/23/12 15:04 | 1 |
| Flashpoint | >140 | | | | Degrees F | | | 08/23/12 15:04 | 1 |
| pH | 7.25 | H | 0.100 | 0.100 | SU | | | 09/01/12 10:03 | 1 |
| Percent Moisture | 24 | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| Percent Solids | 76 | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 51W

**Lab Sample ID: 180-13443-21**
**Date Collected: 08/14/12 12:30**
**Matrix: Water**
**Date Received: 08/15/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | 4.6 | J | 5.0 | 2.5 | ug/L | | | 08/20/12 15:29 | 1 |
| Benzene | 26 | | 1.0 | 0.11 | ug/L | | | 08/20/12 15:29 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.13 | ug/L | | | 08/20/12 15:29 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 08/20/12 15:29 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 08/20/12 15:29 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.55 | ug/L | | | 08/20/12 15:29 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 08/20/12 15:29 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 15:29 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 15:29 | 1 |
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 08/20/12 15:29 | 1 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | | | 08/20/12 15:29 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.18 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.12 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.30 | ug/L | | | 08/20/12 15:29 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 08/20/12 15:29 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 08/20/12 15:29 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 15:29 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/20/12 15:29 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.16 | ug/L | | | 08/20/12 15:29 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 15:29 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 08/20/12 15:29 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 08/20/12 15:29 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 15:29 | 1 |
| Toluene | 0.23 | J | 1.0 | 0.15 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.29 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 08/20/12 15:29 | 1 |
| Trichloroethene | 0.22 | J | 1.0 | 0.14 | ug/L | | | 08/20/12 15:29 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 08/20/12 15:29 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 08/20/12 15:29 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/20/12 15:29 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 51W**
**Date Collected: 08/14/12 12:30**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-21**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Cyclohexane** | **0.99** | **J** | 1.0 | 0.25 | ug/L | | | 08/20/12 15:29 | 1 |
| **cis-1,2-Dichloroethene** | **0.27** | **J** | 1.0 | 0.24 | ug/L | | | 08/20/12 15:29 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 08/20/12 15:29 | 1 |
| **Isopropylbenzene** | **1.4** | | 1.0 | 0.16 | ug/L | | | 08/20/12 15:29 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 15:29 | 1 |
| **Methylcyclohexane** | **4.3** | | 1.0 | 0.26 | ug/L | | | 08/20/12 15:29 | 1 |
| **Methyl tert-butyl ether** | **38** | | 1.0 | 0.18 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.11 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 08/20/12 15:29 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 1.0 | 0.27 | ug/L | | | 08/20/12 15:29 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 08/20/12 15:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *64 - 135* | | *08/20/12 15:29* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *71 - 118* | | *08/20/12 15:29* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 118* | | *08/20/12 15:29* | *1* |
| *Dibromofluoromethane (Surr)* | *102* | | *70 - 128* | | *08/20/12 15:29* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **1.6** | **J** | 1.9 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Acetophenone | ND | | 9.7 | 0.78 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.7 | 0.56 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.7 | 0.62 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Butyl benzyl phthalate | ND | | 9.7 | 1.4 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 4-Chloroaniline | ND | | 9.7 | 0.86 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.7 | 0.49 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Chrysene | ND | | 1.9 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| **Dibenzofuran** | **0.62** | **J** | 9.7 | 0.60 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Di-n-butyl phthalate | ND | | 9.7 | 1.2 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.7 | 1.1 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Diethyl phthalate | ND | | 9.7 | 1.4 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Dimethyl phthalate | ND | | 9.7 | 0.74 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.7 | 0.52 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.7 | 0.77 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Di-n-octyl phthalate | ND | | 9.7 | 2.0 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: 51W**
**Date Collected: 08/14/12 12:30**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-21**
**Matrix: Water**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| **Fluorene** | **0.58** | **J** | 1.9 | 0.21 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.7 | 0.50 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Hexachloroethane | ND | | 9.7 | 0.61 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Isophorone | ND | | 9.7 | 0.63 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| **2-Methylnaphthalene** | **1.0** | **J** | 1.9 | 0.12 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Naphthalene | ND | | 1.9 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2-Nitroaniline | ND | | 49 | 3.4 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 3-Nitroaniline | ND | | 49 | 3.1 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 4-Nitroaniline | ND | | 49 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Nitrobenzene | ND | | 19 | 0.82 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.7 | 0.83 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.7 | 0.73 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2-Chlorophenol | ND | | 9.7 | 1.6 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2-Methylphenol | ND | | 9.7 | 0.84 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2,4-Dimethylphenol | ND | | 9.7 | 0.83 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2,4-Dinitrophenol | ND | | 49 | 6.0 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 49 | 2.1 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2-Nitrophenol | ND | | 9.7 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 4-Nitrophenol | ND | | 49 | 6.3 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Pentachlorophenol | ND | | 9.7 | 0.64 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.7 | 1.5 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.7 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| 1,1'-Biphenyl | ND | | 9.7 | 0.40 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Caprolactam | ND | | 49 | 12 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Benzaldehyde | ND | | 9.7 | 1.5 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Atrazine | ND | | 9.7 | 0.87 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.7 | 0.88 | ug/L | | 08/19/12 10:37 | 08/21/12 23:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *56* | | *37 - 104* | *08/19/12 10:37* | *08/21/12 23:06* | *1* |
| *2-Fluorobiphenyl* | *54* | | *35 - 108* | *08/19/12 10:37* | *08/21/12 23:06* | *1* |
| *Terphenyl-d14* | *41* | | *25 - 130* | *08/19/12 10:37* | *08/21/12 23:06* | *1* |
| *Phenol-d5* | *59* | | *30 - 102* | *08/19/12 10:37* | *08/21/12 23:06* | *1* |
| *2-Fluorophenol* | *59* | | *26 - 100* | *08/19/12 10:37* | *08/21/12 23:06* | *1* |
| *2,4,6-Tribromophenol* | *53* | | *33 - 122* | *08/19/12 10:37* | *08/21/12 23:06* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.13** | | 0.050 | 0.011 | mg/L | | | 08/23/12 18:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *124* | | *70 - 130* | | *08/23/12 18:44* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 51W

**Lab Sample ID: 180-13443-21**

**Date Collected: 08/14/12 12:30**

**Matrix: Water**

**Date Received: 08/15/12 09:00**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.4 | | 0.099 | 0.050 | mg/L | | 08/20/12 15:02 | 08/29/12 22:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *75* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 22:34* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 08/17/12 12:30 | 08/27/12 23:51 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 08/17/12 12:30 | 08/27/12 23:51 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 08/17/12 12:30 | 08/27/12 23:51 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 08/17/12 12:30 | 08/27/12 23:51 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 08/17/12 12:30 | 08/27/12 23:51 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 08/17/12 12:30 | 08/27/12 23:51 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 08/17/12 12:30 | 08/27/12 23:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *75* | | *35 - 140* | *08/17/12 12:30* | *08/27/12 23:51* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *85* | | *35 - 140* | *08/17/12 12:30* | *08/27/12 23:51* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 59 | | 10 | 2.7 | ug/L | | 08/20/12 11:05 | 08/21/12 18:30 | 1 |
| Barium | 100 | J | 200 | 0.62 | ug/L | | 08/20/12 11:05 | 08/21/12 18:30 | 1 |
| Cadmium | 0.45 | J | 5.0 | 0.13 | ug/L | | 08/20/12 11:05 | 08/21/12 18:30 | 1 |
| Chromium | 2.7 | J | 5.0 | 0.57 | ug/L | | 08/20/12 11:05 | 08/21/12 18:30 | 1 |
| Lead | ND | | 3.0 | 1.3 | ug/L | | 08/20/12 11:05 | 08/21/12 18:30 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/20/12 11:05 | 08/21/12 18:30 | 1 |
| Silver | 0.73 | J | 5.0 | 0.68 | ug/L | | 08/20/12 11:05 | 08/21/12 18:30 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/31/12 11:21 | 08/31/12 15:18 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 1.9 | J B | 5.2 | 1.5 | mg/L | | 09/04/12 11:34 | 09/04/12 11:34 | 1 |

## Client Sample ID: 14WD@2-4'

**Lab Sample ID: 180-13443-22**

**Date Collected: 08/14/12 09:30**

**Matrix: Solid**

**Date Received: 08/15/12 09:00**

**Percent Solids: 84.1**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.9 | 0.86 | ug/Kg | ☼ | | 08/25/12 19:54 | 1 |
| Ethylbenzene | ND | | 5.9 | 1.5 | ug/Kg | ☼ | | 08/25/12 19:54 | 1 |
| Toluene | ND | | 5.9 | 0.99 | ug/Kg | ☼ | | 08/25/12 19:54 | 1 |
| Xylenes, Total | ND | | 12 | 1.3 | ug/Kg | ☼ | | 08/25/12 19:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *65 - 130* | | *08/25/12 19:54* | *1* |
| *Dibromofluoromethane* | *105* | | *65 - 130* | | *08/25/12 19:54* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *65 - 130* | | *08/25/12 19:54* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 14WD@2-4'

**Date Collected: 08/14/12 09:30**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-22

**Matrix: Solid**
**Percent Solids: 84.1**

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.30 | 0.023 | mg/Kg | ☼ | | 08/27/12 16:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* | | *08/27/12 16:30* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.9 | 2.5 | mg/Kg | ☼ | 08/27/12 16:24 | 08/30/12 14:54 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.3 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| **HEM** | **55** | **J B** | 200 | 27 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **16** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |
| **Percent Solids** | **84** | | 0.10 | 0.10 | % | | | 08/16/12 12:39 | 1 |

## Client Sample ID: 14WD

**Date Collected: 08/14/12 09:50**
**Date Received: 08/15/12 09:00**

## Lab Sample ID: 180-13443-23

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/19/12 19:40 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 19:40 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 19:40 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/19/12 19:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *64 - 135* | | *08/19/12 19:40* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *71 - 118* | | *08/19/12 19:40* | *1* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *70 - 118* | | *08/19/12 19:40* | *1* |
| *Dibromofluoromethane (Surr)* | *117* | | *70 - 128* | | *08/19/12 19:40* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 19:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/23/12 19:09* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.20** | | 0.098 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 22:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *54* | *X* | *62 - 130* | *08/20/12 15:02* | *08/29/12 22:48* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **4.5** | **J B** | 13 | 3.7 | mg/L | | 09/04/12 11:34 | 09/04/12 11:34 | 1 |
| **Halogens, Total Organic** | **0.074** | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Client Sample ID: 14WD

**Lab Sample ID: 180-13443-23**

**Date Collected: 08/14/12 09:50**

**Matrix: Water**

**Date Received: 08/15/12 09:00**

### General Chemistry (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.074 | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |
| TOX Result 2 | 0.073 | | 0.020 | 0.0070 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 2 |

## Client Sample ID: TRIP BLANK

**Lab Sample ID: 180-13443-24**

**Date Collected: 08/14/12 00:00**

**Matrix: Water**

**Date Received: 08/15/12 09:00**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 5.0 | 2.5 | ug/L | | | 08/19/12 20:04 | 1 |
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/19/12 20:04 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.13 | ug/L | | | 08/19/12 20:04 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 08/19/12 20:04 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 08/19/12 20:04 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.55 | ug/L | | | 08/19/12 20:04 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 08/19/12 20:04 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 20:04 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 20:04 | 1 |
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 08/19/12 20:04 | 1 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | | | 08/19/12 20:04 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.18 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.12 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.30 | ug/L | | | 08/19/12 20:04 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 08/19/12 20:04 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 08/19/12 20:04 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 20:04 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 20:04 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.16 | ug/L | | | 08/19/12 20:04 | 1 |
| Methylene Chloride | 0.23 | J | 1.0 | 0.15 | ug/L | | | 08/19/12 20:04 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 08/19/12 20:04 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | * | 1.0 | 0.20 | ug/L | | | 08/19/12 20:04 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 20:04 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.29 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 08/19/12 20:04 | 1 |
| Trichloroethene | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 20:04 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 08/19/12 20:04 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 20:04 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/19/12 20:04 | 1 |
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 08/19/12 20:04 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 08/19/12 20:04 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 08/19/12 20:04 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.16 | ug/L | | | 08/19/12 20:04 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 08/19/12 20:04 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 08/19/12 20:04 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.18 | ug/L | | | 08/19/12 20:04 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

**Client Sample ID: TRIP BLANK**
**Date Collected: 08/14/12 00:00**
**Date Received: 08/15/12 09:00**

**Lab Sample ID: 180-13443-24**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.11 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 08/19/12 20:04 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 1.0 | 0.27 | ug/L | | | 08/19/12 20:04 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 08/19/12 20:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *64 - 135* | | *08/19/12 20:04* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *71 - 118* | | *08/19/12 20:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *70 - 118* | | *08/19/12 20:04* | *1* |
| *Dibromofluoromethane (Surr)* | *117* | | *70 - 128* | | *08/19/12 20:04* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 680-247766/7**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | ND | | 5.0 | 0.94 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Chloromethane | ND | | 5.0 | 1.0 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.5 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Bromomethane | ND | | 5.0 | 1.5 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Chloroethane | ND | | 5.0 | 2.7 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.2 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.5 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.3 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Acetone | ND | | 50 | 11 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Methyl acetate | ND | | 10 | 5.0 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.98 | ug/Kg | | | 08/25/12 14:07 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.63 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Methyl tert-butyl ether | ND | | 10 | 1.0 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.1 | ug/Kg | | | 08/25/12 14:07 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 1.4 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 2-Butanone | ND | | 25 | 2.4 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Chloroform | ND | | 5.0 | 1.1 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.59 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Cyclohexane | ND | | 10 | 1.3 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.83 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Benzene | ND | | 5.0 | 0.73 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 1.1 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Trichloroethene | ND | | 5.0 | 1.3 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Methylcyclohexane | ND | | 10 | 0.86 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.86 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Bromodichloromethane | ND | | 5.0 | 0.97 | ug/Kg | | | 08/25/12 14:07 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.83 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 4-Methyl-2-pentanone | ND | | 25 | 4.2 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Toluene | ND | | 5.0 | 0.84 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.3 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Tetrachloroethene | ND | | 5.0 | 1.9 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 2-Hexanone | ND | | 25 | 3.3 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Dibromochloromethane | ND | | 5.0 | 1.7 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.96 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.3 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Xylenes, Total | ND | | 10 | 1.1 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Styrene | ND | | 5.0 | 0.93 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Bromoform | ND | | 5.0 | 1.5 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Isopropylbenzene | ND | | 5.0 | 1.9 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 1.6 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 4.4 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 1.6 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 1.3 | ug/Kg | | | 08/25/12 14:07 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.87 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,2-Dibromoethane | ND | | 5.0 | 1.5 | ug/Kg | | | 08/25/12 14:07 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.74 | ug/Kg | | | 08/25/12 14:07 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-247766/7**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Toluene-d8 (Surr) | 96 | | 65 - 130 | | 08/25/12 14:07 | 1 |
| 4-Bromofluorobenzene | 97 | | 65 - 130 | | 08/25/12 14:07 | 1 |
| Dibromofluoromethane | 104 | | 65 - 130 | | 08/25/12 14:07 | 1 |

**Lab Sample ID: LCS 680-247766/4**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 50.0 | 49.4 | | ug/Kg | | 99 | 41 - 137 |
| Chloromethane | 50.0 | 43.7 | | ug/Kg | | 87 | 62 - 135 |
| Vinyl chloride | 50.0 | 45.1 | | ug/Kg | | 90 | 65 - 135 |
| Bromomethane | 50.0 | 44.9 | | ug/Kg | | 90 | 44 - 130 |
| Chloroethane | 50.0 | 48.3 | | ug/Kg | | 97 | 36 - 150 |
| Trichlorofluoromethane | 50.0 | 47.7 | | ug/Kg | | 95 | 68 - 130 |
| 1,1-Dichloroethene | 50.0 | 47.2 | | ug/Kg | | 94 | 69 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 46.5 | | ug/Kg | | 93 | 70 - 130 |
| o-Xylene | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 130 |
| Acetone | 100 | 89.4 | | ug/Kg | | 89 | 42 - 130 |
| m-Xylene & p-Xylene | 100 | 95.9 | | ug/Kg | | 96 | 70 - 130 |
| Carbon disulfide | 50.0 | 50.9 | | ug/Kg | | 102 | 40 - 136 |
| Methyl acetate | 50.0 | 48.3 | | ug/Kg | | 97 | 52 - 134 |
| Methylene Chloride | 50.0 | 48.1 | | ug/Kg | | 96 | 52 - 135 |
| trans-1,2-Dichloroethene | 50.0 | 48.2 | | ug/Kg | | 96 | 70 - 130 |
| Methyl tert-butyl ether | 100 | 93.9 | | ug/Kg | | 94 | 70 - 130 |
| 1,1-Dichloroethane | 50.0 | 48.8 | | ug/Kg | | 98 | 70 - 130 |
| cis-1,2-Dichloroethene | 50.0 | 48.4 | | ug/Kg | | 97 | 70 - 130 |
| 2-Butanone | 100 | 89.1 | | ug/Kg | | 89 | 70 - 130 |
| Chloroform | 50.0 | 49.2 | | ug/Kg | | 98 | 70 - 130 |
| 1,1,1-Trichloroethane | 50.0 | 48.2 | | ug/Kg | | 96 | 69 - 130 |
| Cyclohexane | 50.0 | 48.9 | | ug/Kg | | 98 | 70 - 130 |
| Carbon tetrachloride | 50.0 | 48.5 | | ug/Kg | | 97 | 68 - 130 |
| Benzene | 50.0 | 47.1 | | ug/Kg | | 94 | 70 - 130 |
| 1,2-Dichloroethane | 50.0 | 45.6 | | ug/Kg | | 91 | 66 - 130 |
| Trichloroethene | 50.0 | 48.9 | | ug/Kg | | 98 | 70 - 130 |
| Methylcyclohexane | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 130 |
| 1,2-Dichloropropane | 50.0 | 46.0 | | ug/Kg | | 92 | 70 - 130 |
| Bromodichloromethane | 50.0 | 47.0 | | ug/Kg | | 94 | 70 - 130 |
| cis-1,3-Dichloropropene | 50.0 | 46.0 | | ug/Kg | | 92 | 70 - 130 |
| 4-Methyl-2-pentanone | 100 | 87.0 | | ug/Kg | | 87 | 64 - 130 |
| Toluene | 50.0 | 45.2 | | ug/Kg | | 90 | 70 - 130 |
| 1,1,2-Trichloroethane | 50.0 | 44.4 | | ug/Kg | | 89 | 70 - 130 |
| Tetrachloroethene | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 130 |
| 2-Hexanone | 100 | 90.3 | | ug/Kg | | 90 | 65 - 130 |
| Dibromochloromethane | 50.0 | 49.1 | | ug/Kg | | 98 | 70 - 130 |
| Chlorobenzene | 50.0 | 47.5 | | ug/Kg | | 95 | 70 - 130 |
| Ethylbenzene | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 130 |
| Xylenes, Total | 150 | 144 | | ug/Kg | | 96 | 70 - 130 |
| Styrene | 50.0 | 47.5 | | ug/Kg | | 95 | 70 - 130 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 680-247766/4**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | | | 50.0 | 48.7 | | ug/Kg | | 97 | 70 - 130 | | |
| Isopropylbenzene | | | 50.0 | 47.8 | | ug/Kg | | 96 | 70 - 130 | | |
| 1,1,2,2-Tetrachloroethane | | | 50.0 | 45.4 | | ug/Kg | | 91 | 70 - 130 | | |
| 1,2-Dibromo-3-Chloropropane | | | 50.0 | 44.2 | | ug/Kg | | 88 | 67 - 130 | | |
| 1,3-Dichlorobenzene | | | 50.0 | 47.0 | | ug/Kg | | 94 | 70 - 130 | | |
| 1,2-Dichlorobenzene | | | 50.0 | 46.5 | | ug/Kg | | 93 | 70 - 130 | | |
| trans-1,3-Dichloropropene | | | 50.0 | 45.1 | | ug/Kg | | 90 | 69 - 130 | | |
| 1,2-Dibromoethane | | | 50.0 | 45.5 | | ug/Kg | | 91 | 70 - 130 | | |
| 1,4-Dichlorobenzene | | | 50.0 | 46.5 | | ug/Kg | | 93 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *92* | | *65 - 130* |
| *4-Bromofluorobenzene* | *95* | | *65 - 130* |
| *Dibromofluoromethane* | *98* | | *65 - 130* |

**Lab Sample ID: LCSD 680-247766/5**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | | | 50.0 | 47.7 | | ug/Kg | | 95 | 41 - 137 | 3 | 50 |
| Chloromethane | | | 50.0 | 43.9 | | ug/Kg | | 88 | 62 - 135 | 0 | 50 |
| Vinyl chloride | | | 50.0 | 45.0 | | ug/Kg | | 90 | 65 - 135 | 0 | 50 |
| Bromomethane | | | 50.0 | 46.6 | | ug/Kg | | 93 | 44 - 130 | 4 | 50 |
| Chloroethane | | | 50.0 | 46.5 | | ug/Kg | | 93 | 36 - 150 | 4 | 50 |
| Trichlorofluoromethane | | | 50.0 | 46.8 | | ug/Kg | | 94 | 68 - 130 | 2 | 50 |
| 1,1-Dichloroethene | | | 50.0 | 45.7 | | ug/Kg | | 91 | 69 - 130 | 3 | 50 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | | | 50.0 | 44.7 | | ug/Kg | | 89 | 70 - 130 | 4 | 50 |
| o-Xylene | | | 50.0 | 47.1 | | ug/Kg | | 94 | 70 - 130 | 1 | 50 |
| Acetone | | | 100 | 87.8 | | ug/Kg | | 88 | 42 - 130 | 2 | 50 |
| m-Xylene & p-Xylene | | | 100 | 93.6 | | ug/Kg | | 94 | 70 - 130 | 2 | 50 |
| Carbon disulfide | | | 50.0 | 51.3 | | ug/Kg | | 103 | 40 - 136 | 1 | 50 |
| Methyl acetate | | | 50.0 | 47.2 | | ug/Kg | | 94 | 52 - 134 | 2 | 50 |
| Methylene Chloride | | | 50.0 | 47.5 | | ug/Kg | | 95 | 52 - 135 | 1 | 50 |
| trans-1,2-Dichloroethene | | | 50.0 | 49.4 | | ug/Kg | | 99 | 70 - 130 | 2 | 50 |
| Methyl tert-butyl ether | | | 100 | 92.6 | | ug/Kg | | 93 | 70 - 130 | 1 | 50 |
| 1,1-Dichloroethane | | | 50.0 | 49.3 | | ug/Kg | | 99 | 70 - 130 | 1 | 50 |
| cis-1,2-Dichloroethene | | | 50.0 | 48.2 | | ug/Kg | | 96 | 70 - 130 | 0 | 50 |
| 2-Butanone | | | 100 | 87.5 | | ug/Kg | | 87 | 70 - 130 | 2 | 50 |
| Chloroform | | | 50.0 | 49.5 | | ug/Kg | | 99 | 70 - 130 | 1 | 50 |
| 1,1,1-Trichloroethane | | | 50.0 | 48.4 | | ug/Kg | | 97 | 69 - 130 | 0 | 50 |
| Cyclohexane | | | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 130 | 2 | 50 |
| Carbon tetrachloride | | | 50.0 | 47.7 | | ug/Kg | | 95 | 68 - 130 | 2 | 50 |
| Benzene | | | 50.0 | 46.8 | | ug/Kg | | 94 | 70 - 130 | 0 | 50 |
| 1,2-Dichloroethane | | | 50.0 | 45.0 | | ug/Kg | | 90 | 66 - 130 | 1 | 50 |
| Trichloroethene | | | 50.0 | 48.2 | | ug/Kg | | 96 | 70 - 130 | 1 | 50 |
| Methylcyclohexane | | | 50.0 | 45.3 | | ug/Kg | | 91 | 70 - 130 | 5 | 50 |
| 1,2-Dichloropropane | | | 50.0 | 45.3 | | ug/Kg | | 91 | 70 - 130 | 2 | 50 |
| Bromodichloromethane | | | 50.0 | 46.7 | | ug/Kg | | 93 | 70 - 130 | 1 | 50 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 680-247766/5**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | | | 50.0 | 45.4 | | ug/Kg | | 91 | 70 - 130 | 1 | 50 |
| 4-Methyl-2-pentanone | | | 100 | 83.9 | | ug/Kg | | 84 | 64 - 130 | 4 | 50 |
| Toluene | | | 50.0 | 44.7 | | ug/Kg | | 89 | 70 - 130 | 1 | 50 |
| 1,1,2-Trichloroethane | | | 50.0 | 43.5 | | ug/Kg | | 87 | 70 - 130 | 2 | 50 |
| Tetrachloroethene | | | 50.0 | 48.7 | | ug/Kg | | 97 | 70 - 130 | 4 | 50 |
| 2-Hexanone | | | 100 | 85.8 | | ug/Kg | | 86 | 65 - 130 | 5 | 50 |
| Dibromochloromethane | | | 50.0 | 47.5 | | ug/Kg | | 95 | 70 - 130 | 3 | 50 |
| Chlorobenzene | | | 50.0 | 46.6 | | ug/Kg | | 93 | 70 - 130 | 2 | 50 |
| Ethylbenzene | | | 50.0 | 46.6 | | ug/Kg | | 93 | 70 - 130 | 2 | 50 |
| Xylenes, Total | | | 150 | 141 | | ug/Kg | | 94 | 70 - 130 | 2 | 50 |
| Styrene | | | 50.0 | 46.8 | | ug/Kg | | 94 | 70 - 130 | 2 | 50 |
| Bromoform | | | 50.0 | 47.1 | | ug/Kg | | 94 | 70 - 130 | 3 | 50 |
| Isopropylbenzene | | | 50.0 | 46.9 | | ug/Kg | | 94 | 70 - 130 | 2 | 50 |
| 1,1,2,2-Tetrachloroethane | | | 50.0 | 43.8 | | ug/Kg | | 88 | 70 - 130 | 4 | 50 |
| 1,2-Dibromo-3-Chloropropane | | | 50.0 | 44.0 | | ug/Kg | | 88 | 67 - 130 | 0 | 50 |
| 1,3-Dichlorobenzene | | | 50.0 | 46.4 | | ug/Kg | | 93 | 70 - 130 | 1 | 50 |
| 1,2-Dichlorobenzene | | | 50.0 | 45.6 | | ug/Kg | | 91 | 70 - 130 | 2 | 50 |
| trans-1,3-Dichloropropene | | | 50.0 | 44.4 | | ug/Kg | | 89 | 69 - 130 | 1 | 50 |
| 1,2-Dibromoethane | | | 50.0 | 45.0 | | ug/Kg | | 90 | 70 - 130 | 1 | 50 |
| 1,4-Dichlorobenzene | | | 50.0 | 45.7 | | ug/Kg | | 91 | 70 - 130 | 2 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *91* | | *65 - 130* |
| *4-Bromofluorobenzene* | *94* | | *65 - 130* |
| *Dibromofluoromethane* | *98* | | *65 - 130* |

**Lab Sample ID: MB 180-45487/4**
**Matrix: Water**
**Analysis Batch: 45487**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/18/12 13:38 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/18/12 13:38 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/18/12 13:38 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/18/12 13:38 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 135* | | *08/18/12 13:38* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *71 - 118* | | *08/18/12 13:38* | *1* |
| *4-Bromofluorobenzene (Surr)* | *95* | | *70 - 118* | | *08/18/12 13:38* | *1* |
| *Dibromofluoromethane (Surr)* | *116* | | *70 - 128* | | *08/18/12 13:38* | *1* |

**Lab Sample ID: LCS 180-45487/6**
**Matrix: Water**
**Analysis Batch: 45487**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 10.0 | 10.4 | | ug/L | | 104 | 80 - 120 | | |
| Ethylbenzene | | | 10.0 | 10.6 | | ug/L | | 106 | 72 - 126 | | |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45487/6**
**Matrix: Water**
**Analysis Batch: 45487**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Toluene | | | 10.0 | 10.4 | | ug/L | | 104 | 80 - 123 | | |
| Xylenes, Total | | | 30.0 | 31.2 | | ug/L | | 104 | 76 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *103* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *92* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *107* | | *70 - 128* |

**Lab Sample ID: MB 180-45524/3**
**Matrix: Water**
**Analysis Batch: 45524**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/19/12 12:27 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/19/12 12:27 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/19/12 12:27 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/19/12 12:27 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *64 - 135* | | *08/19/12 12:27* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *71 - 118* | | *08/19/12 12:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *70 - 118* | | *08/19/12 12:27* | *1* |
| *Dibromofluoromethane (Surr)* | *116* | | *70 - 128* | | *08/19/12 12:27* | *1* |

**Lab Sample ID: MB 180-45606/4**
**Matrix: Water**
**Analysis Batch: 45606**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 5.0 | 2.5 | ug/L | | | 08/20/12 10:55 | 1 |
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/20/12 10:55 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.13 | ug/L | | | 08/20/12 10:55 | 1 |
| Bromoform | ND | | 1.0 | 0.19 | ug/L | | | 08/20/12 10:55 | 1 |
| Bromomethane | ND | | 1.0 | 0.31 | ug/L | | | 08/20/12 10:55 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.55 | ug/L | | | 08/20/12 10:55 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.21 | ug/L | | | 08/20/12 10:55 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 10:55 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 10:55 | 1 |
| Chloroethane | ND | | 1.0 | 0.21 | ug/L | | | 08/20/12 10:55 | 1 |
| Chloroform | ND | | 1.0 | 0.17 | ug/L | | | 08/20/12 10:55 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 1.0 | 0.18 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.12 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.30 | ug/L | | | 08/20/12 10:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.17 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.095 | ug/L | | | 08/20/12 10:55 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45606/4**
**Matrix: Water**
**Analysis Batch: 45606**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.19 | ug/L | | | 08/20/12 10:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 10:55 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/20/12 10:55 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.16 | ug/L | | | 08/20/12 10:55 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 10:55 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.53 | ug/L | | | 08/20/12 10:55 | 1 |
| Styrene | ND | | 1.0 | 0.097 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.20 | ug/L | | | 08/20/12 10:55 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 10:55 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.29 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.20 | ug/L | | | 08/20/12 10:55 | 1 |
| Trichloroethene | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 10:55 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.20 | ug/L | | | 08/20/12 10:55 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.23 | ug/L | | | 08/20/12 10:55 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/20/12 10:55 | 1 |
| Cyclohexane | ND | | 1.0 | 0.25 | ug/L | | | 08/20/12 10:55 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.24 | ug/L | | | 08/20/12 10:55 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.19 | ug/L | | | 08/20/12 10:55 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.16 | ug/L | | | 08/20/12 10:55 | 1 |
| Methyl acetate | ND | | 1.0 | 0.14 | ug/L | | | 08/20/12 10:55 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.26 | ug/L | | | 08/20/12 10:55 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.18 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.32 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.15 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.11 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.21 | ug/L | | | 08/20/12 10:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.27 | ug/L | | | 08/20/12 10:55 | 1 |
| Chloromethane | ND | | 1.0 | 0.28 | ug/L | | | 08/20/12 10:55 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *112* | | *64 - 135* | | *08/20/12 10:55* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *71 - 118* | | *08/20/12 10:55* | *1* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *70 - 118* | | *08/20/12 10:55* | *1* |
| *Dibromofluoromethane (Surr)* | *115* | | *70 - 128* | | *08/20/12 10:55* | *1* |

**Lab Sample ID: LCS 180-45606/7**
**Matrix: Water**
**Analysis Batch: 45606**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 10.0 | 8.49 | | ug/L | | 85 | 22 - 150 |
| Benzene | 10.0 | 9.74 | | ug/L | | 97 | 80 - 120 |
| Bromodichloromethane | 10.0 | 9.56 | | ug/L | | 96 | 66 - 130 |
| Bromoform | 10.0 | 10.6 | | ug/L | | 106 | 46 - 150 |
| Bromomethane | 10.0 | 7.82 | | ug/L | | 78 | 33 - 150 |
| 2-Butanone (MEK) | 10.0 | 9.78 | | ug/L | | 98 | 39 - 138 |
| Carbon disulfide | 10.0 | 9.14 | | ug/L | | 91 | 54 - 132 |
| Carbon tetrachloride | 10.0 | 11.6 | | ug/L | | 116 | 55 - 150 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45606/7**
**Matrix: Water**
**Analysis Batch: 45606**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chlorobenzene | 10.0 | 10.1 | | ug/L | | 101 | 80 - 120 |
| Chloroethane | 10.0 | 7.64 | | ug/L | | 76 | 36 - 142 |
| Chloroform | 10.0 | 9.65 | | ug/L | | 97 | 72 - 127 |
| Dibromochloromethane | 10.0 | 11.3 | | ug/L | | 113 | 60 - 140 |
| 1,2-Dibromo-3-Chloropropane | 10.0 | 9.02 | | ug/L | | 90 | 37 - 133 |
| 1,2-Dibromoethane (EDB) | 10.0 | 10.1 | | ug/L | | 101 | 74 - 123 |
| 1,1-Dichloroethane | 10.0 | 9.50 | | ug/L | | 95 | 73 - 126 |
| 1,2-Dichloroethane | 10.0 | 9.44 | | ug/L | | 94 | 68 - 132 |
| 1,1-Dichloroethene | 10.0 | 9.98 | | ug/L | | 100 | 65 - 136 |
| trans-1,2-Dichloroethene | 10.0 | 9.92 | | ug/L | | 99 | 73 - 126 |
| 1,2-Dichloropropane | 10.0 | 9.62 | | ug/L | | 96 | 76 - 124 |
| cis-1,3-Dichloropropene | 10.0 | 9.25 | | ug/L | | 93 | 66 - 120 |
| trans-1,3-Dichloropropene | 10.0 | 9.53 | | ug/L | | 95 | 65 - 125 |
| Ethylbenzene | 10.0 | 10.2 | | ug/L | | 102 | 72 - 126 |
| 2-Hexanone | 10.0 | 8.24 | | ug/L | | 82 | 25 - 132 |
| Methylene Chloride | 10.0 | 8.33 | | ug/L | | 83 | 63 - 129 |
| 4-Methyl-2-pentanone (MIBK) | 10.0 | 9.36 | | ug/L | | 94 | 45 - 145 |
| Styrene | 10.0 | 9.69 | | ug/L | | 97 | 71 - 127 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 11.8 | | ug/L | | 118 | 62 - 125 |
| Tetrachloroethene | 10.0 | 10.6 | | ug/L | | 106 | 70 - 135 |
| Toluene | 10.0 | 9.79 | | ug/L | | 98 | 80 - 123 |
| 1,1,1-Trichloroethane | 10.0 | 9.71 | | ug/L | | 97 | 63 - 133 |
| 1,1,2-Trichloroethane | 10.0 | 9.63 | | ug/L | | 96 | 77 - 127 |
| Trichloroethene | 10.0 | 9.90 | | ug/L | | 99 | 73 - 120 |
| Trichlorofluoromethane | 10.0 | 10.0 | | ug/L | | 100 | 44 - 150 |
| Vinyl chloride | 10.0 | 8.62 | | ug/L | | 86 | 53 - 138 |
| Xylenes, Total | 30.0 | 29.9 | | ug/L | | 100 | 76 - 128 |
| Cyclohexane | 10.0 | 9.97 | | ug/L | | 100 | 45 - 142 |
| cis-1,2-Dichloroethene | 10.0 | 8.74 | | ug/L | | 87 | 70 - 120 |
| Dichlorodifluoromethane | 10.0 | 9.22 | | ug/L | | 92 | 13 - 150 |
| Isopropylbenzene | 10.0 | 9.24 | | ug/L | | 92 | 58 - 130 |
| Methyl acetate | 10.0 | 9.94 | | ug/L | | 99 | 47 - 142 |
| Methylcyclohexane | 10.0 | 9.31 | | ug/L | | 93 | 45 - 145 |
| Methyl tert-butyl ether | 10.0 | 8.58 | | ug/L | | 86 | 64 - 123 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.0 | 10.1 | | ug/L | | 101 | 46 - 148 |
| 1,2-Dichlorobenzene | 10.0 | 9.25 | | ug/L | | 92 | 77 - 120 |
| 1,3-Dichlorobenzene | 10.0 | 9.54 | | ug/L | | 95 | 76 - 120 |
| 1,4-Dichlorobenzene | 10.0 | 9.42 | | ug/L | | 94 | 77 - 120 |
| 1,2,4-Trichlorobenzene | 10.0 | 5.49 | * | ug/L | | 55 | 60 - 127 |
| Chloromethane | 10.0 | 8.67 | | ug/L | | 87 | 50 - 139 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *102* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *106* | | *70 - 128* |

## Method: 8260B - Volatile Organic Compounds by GC/MS

**Lab Sample ID: LCS 180-46005/5**
**Matrix: Solid**
**Analysis Batch: 46005**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.400 | 0.412 | | mg/L | | 103 | 69 - 127 |
| 1,2-Dichloroethane | 0.400 | 0.467 | | mg/L | | 117 | 63 - 140 |
| 2-Butanone (MEK) | 0.400 | 0.403 | | mg/L | | 101 | 31 - 139 |
| Benzene | 0.400 | 0.395 | | mg/L | | 99 | 80 - 120 |
| Carbon tetrachloride | 0.400 | 0.492 | | mg/L | | 123 | 63 - 139 |
| Chlorobenzene | 0.400 | 0.404 | | mg/L | | 101 | 83 - 120 |
| Chloroform | 0.400 | 0.418 | | mg/L | | 105 | 77 - 119 |
| Tetrachloroethene | 0.400 | 0.399 | | mg/L | | 100 | 78 - 126 |
| Trichloroethene | 0.400 | 0.432 | | mg/L | | 108 | 80 - 120 |
| Vinyl chloride | 0.400 | 0.412 | | mg/L | | 103 | 57 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *88* | | *80 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *62 - 123* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *80 - 120* |

**Lab Sample ID: LCSD 180-46005/6**
**Matrix: Solid**
**Analysis Batch: 46005**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 0.400 | 0.389 | | mg/L | | 97 | 69 - 127 | 6 | 20 |
| 1,2-Dichloroethane | 0.400 | 0.477 | | mg/L | | 119 | 63 - 140 | 2 | 25 |
| 2-Butanone (MEK) | 0.400 | 0.412 | | mg/L | | 103 | 31 - 139 | 2 | 35 |
| Benzene | 0.400 | 0.392 | | mg/L | | 98 | 80 - 120 | 1 | 20 |
| Carbon tetrachloride | 0.400 | 0.463 | | mg/L | | 116 | 63 - 139 | 6 | 25 |
| Chlorobenzene | 0.400 | 0.401 | | mg/L | | 100 | 83 - 120 | 1 | 20 |
| Chloroform | 0.400 | 0.422 | | mg/L | | 106 | 77 - 119 | 1 | 20 |
| Tetrachloroethene | 0.400 | 0.406 | | mg/L | | 102 | 78 - 126 | 2 | 25 |
| Trichloroethene | 0.400 | 0.439 | | mg/L | | 110 | 80 - 120 | 1 | 20 |
| Vinyl chloride | 0.400 | 0.373 | | mg/L | | 93 | 57 - 128 | 10 | 26 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Toluene-d8 (Surr)* | *88* | | *80 - 120* |
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *62 - 123* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *97* | | *80 - 120* |

**Lab Sample ID: LB 180-45774/9-A LB**
**Matrix: Solid**
**Analysis Batch: 46005**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 03:46 | 10 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.0096 | mg/L | | | 08/23/12 03:46 | 10 |
| 2-Butanone (MEK) | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 03:46 | 10 |
| Benzene | ND | | 0.050 | 0.0099 | mg/L | | | 08/23/12 03:46 | 10 |
| Carbon tetrachloride | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 03:46 | 10 |

## Method: 8260B - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LB 180-45774/9-A LB**
**Matrix: Solid**
**Analysis Batch: 46005**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | ND | | 0.050 | 0.0053 | mg/L | | | 08/23/12 03:46 | 10 |
| Chloroform | ND | | 0.050 | 0.010 | mg/L | | | 08/23/12 03:46 | 10 |
| Tetrachloroethene | ND | | 0.050 | 0.0082 | mg/L | | | 08/23/12 03:46 | 10 |
| Trichloroethene | ND | | 0.050 | 0.0080 | mg/L | | | 08/23/12 03:46 | 10 |
| Vinyl chloride | ND | | 0.050 | 0.013 | mg/L | | | 08/23/12 03:46 | 10 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *86* | | *80 - 120* | | *08/23/12 03:46* | *10* |
| *1,2-Dichloroethane-d4 (Surr)* | *115* | | *62 - 123* | | *08/23/12 03:46* | *10* |
| *4-Bromofluorobenzene (Surr)* | *84* | | *75 - 120* | | *08/23/12 03:46* | *10* |
| *Dibromofluoromethane (Surr)* | *102* | | *80 - 120* | | *08/23/12 03:46* | *10* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-45505/1-A**
**Matrix: Water**
**Analysis Batch: 45848**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45505**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 2.0 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Acetophenone | ND | | 10 | 0.80 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Acenaphthylene | ND | | 2.0 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Anthracene | ND | | 2.0 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Benzo[a]anthracene | ND | | 2.0 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Benzo[a]pyrene | ND | | 2.0 | 0.13 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Benzo[b]fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Benzo[g,h,i]perylene | ND | | 2.0 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Benzo[k]fluoranthene | ND | | 2.0 | 0.55 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Bis(2-chloroethyl)ether | ND | | 2.0 | 0.25 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 10 | 0.58 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 2.0 | 0.20 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 20 | 13 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 10 | 0.64 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 1.4 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Carbazole | ND | | 2.0 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 4-Chloroaniline | ND | | 10 | 0.89 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2-Chloronaphthalene | ND | | 2.0 | 0.15 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | 0.50 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Chrysene | ND | | 2.0 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Dibenz(a,h)anthracene | ND | | 2.0 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Dibenzofuran | ND | | 10 | 0.62 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 1.2 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 10 | 1.1 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Diethyl phthalate | ND | | 10 | 1.5 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.77 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2,4-Dinitrotoluene | ND | | 10 | 0.54 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2,6-Dinitrotoluene | ND | | 10 | 0.80 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 2.1 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45505/1-A**
**Matrix: Water**
**Analysis Batch: 45848**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45505**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Fluorene | ND | | 2.0 | 0.22 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Hexachlorobenzene | ND | | 2.0 | 0.18 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | 0.17 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.52 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Hexachloroethane | ND | | 10 | 0.63 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 2.0 | 0.20 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Isophorone | ND | | 10 | 0.64 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2-Methylnaphthalene | ND | | 2.0 | 0.12 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Naphthalene | ND | | 2.0 | 0.14 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2-Nitroaniline | ND | | 50 | 3.5 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 3-Nitroaniline | ND | | 50 | 3.2 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 4-Nitroaniline | ND | | 50 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Nitrobenzene | ND | | 20 | 0.84 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 2.0 | 0.31 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| N-Nitrosodiphenylamine | ND | | 10 | 0.85 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Phenanthrene | ND | | 2.0 | 0.43 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Pyrene | ND | | 2.0 | 0.16 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 4-Chloro-3-methylphenol | ND | | 10 | 0.75 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2-Chlorophenol | ND | | 10 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2-Methylphenol | ND | | 10 | 0.86 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2,4-Dichlorophenol | ND | | 2.0 | 0.33 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2,4-Dimethylphenol | ND | | 10 | 0.85 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2,4-Dinitrophenol | ND | | 50 | 6.1 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 50 | 2.2 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2-Nitrophenol | ND | | 10 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 4-Nitrophenol | ND | | 50 | 6.5 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Pentachlorophenol | ND | | 10 | 0.66 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Phenol | ND | | 2.0 | 0.58 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 1.5 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 2,4,6-Trichlorophenol | ND | | 10 | 1.7 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| 1,1'-Biphenyl | ND | | 10 | 0.42 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Caprolactam | ND | | 50 | 12 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Benzaldehyde | ND | | 10 | 1.5 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Atrazine | ND | | 10 | 0.89 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |
| Methylphenol, 3 & 4 | ND | | 10 | 0.90 | ug/L | | 08/19/12 10:37 | 08/21/12 15:51 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *61* | | *37 - 104* | *08/19/12 10:37* | *08/21/12 15:51* | *1* |
| *2-Fluorobiphenyl* | *63* | | *35 - 108* | *08/19/12 10:37* | *08/21/12 15:51* | *1* |
| *Terphenyl-d14* | *66* | | *25 - 130* | *08/19/12 10:37* | *08/21/12 15:51* | *1* |
| *Phenol-d5* | *71* | | *30 - 102* | *08/19/12 10:37* | *08/21/12 15:51* | *1* |
| *2-Fluorophenol* | *70* | | *26 - 100* | *08/19/12 10:37* | *08/21/12 15:51* | *1* |
| *2,4,6-Tribromophenol* | *55* | | *33 - 122* | *08/19/12 10:37* | *08/21/12 15:51* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45505/2-A**
**Matrix: Water**
**Analysis Batch: 45848**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45505**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 200 | 133 | | ug/L | | 66 | 39 - 106 |
| Acenaphthylene | 200 | 135 | | ug/L | | 68 | 40 - 113 |
| Anthracene | 200 | 141 | | ug/L | | 71 | 37 - 108 |
| Benzo[a]anthracene | 200 | 136 | | ug/L | | 68 | 40 - 103 |
| Benzo[a]pyrene | 200 | 154 | | ug/L | | 77 | 37 - 105 |
| Benzo[b]fluoranthene | 200 | 130 | | ug/L | | 65 | 35 - 100 |
| Benzo[g,h,i]perylene | 200 | 146 | | ug/L | | 73 | 31 - 118 |
| Benzo[k]fluoranthene | 200 | 138 | | ug/L | | 69 | 37 - 108 |
| Bis(2-chloroethyl)ether | 200 | 137 | | ug/L | | 69 | 34 - 96 |
| Bis(2-chloroethoxy)methane | 200 | 142 | | ug/L | | 71 | 36 - 101 |
| bis (2-chloroisopropyl) ether | 200 | 113 | | ug/L | | 56 | 30 - 100 |
| Bis(2-ethylhexyl) phthalate | 200 | 136 | | ug/L | | 68 | 35 - 112 |
| 4-Bromophenyl phenyl ether | 200 | 143 | | ug/L | | 71 | 38 - 108 |
| Butyl benzyl phthalate | 200 | 137 | | ug/L | | 69 | 34 - 110 |
| Carbazole | 200 | 153 | | ug/L | | 77 | 35 - 113 |
| 4-Chloroaniline | 200 | 145 | | ug/L | | 72 | 26 - 99 |
| 2-Chloronaphthalene | 200 | 140 | | ug/L | | 70 | 37 - 102 |
| 4-Chlorophenyl phenyl ether | 200 | 147 | | ug/L | | 74 | 39 - 107 |
| Chrysene | 200 | 141 | | ug/L | | 71 | 39 - 103 |
| Dibenz(a,h)anthracene | 200 | 145 | | ug/L | | 73 | 32 - 117 |
| Dibenzofuran | 200 | 143 | | ug/L | | 71 | 37 - 107 |
| Di-n-butyl phthalate | 200 | 149 | | ug/L | | 75 | 36 - 113 |
| 3,3'-Dichlorobenzidine | 200 | 149 | | ug/L | | 74 | 11 - 106 |
| Diethyl phthalate | 200 | 151 | | ug/L | | 75 | 39 - 112 |
| Dimethyl phthalate | 200 | 149 | | ug/L | | 75 | 40 - 110 |
| 2,4-Dinitrotoluene | 200 | 150 | | ug/L | | 75 | 41 - 117 |
| 2,6-Dinitrotoluene | 200 | 158 | | ug/L | | 79 | 42 - 118 |
| Di-n-octyl phthalate | 200 | 141 | | ug/L | | 70 | 27 - 118 |
| Fluoranthene | 200 | 150 | | ug/L | | 75 | 35 - 111 |
| Fluorene | 200 | 139 | | ug/L | | 70 | 39 - 107 |
| Hexachlorobenzene | 200 | 149 | | ug/L | | 74 | 35 - 106 |
| Hexachlorobutadiene | 200 | 138 | | ug/L | | 69 | 30 - 103 |
| Hexachlorocyclopentadiene | 200 | 39.6 | | ug/L | | 20 | 19 - 116 |
| Hexachloroethane | 200 | 136 | | ug/L | | 68 | 27 - 94 |
| Indeno[1,2,3-cd]pyrene | 200 | 145 | | ug/L | | 72 | 32 - 116 |
| Isophorone | 200 | 143 | | ug/L | | 72 | 39 - 108 |
| 2-Methylnaphthalene | 200 | 139 | | ug/L | | 69 | 36 - 101 |
| Naphthalene | 200 | 131 | | ug/L | | 65 | 35 - 98 |
| 2-Nitroaniline | 200 | 137 | | ug/L | | 68 | 37 - 114 |
| 3-Nitroaniline | 200 | 156 | | ug/L | | 78 | 32 - 117 |
| 4-Nitroaniline | 200 | 166 | | ug/L | | 83 | 32 - 117 |
| Nitrobenzene | 200 | 137 | | ug/L | | 68 | 37 - 103 |
| N-Nitrosodi-n-propylamine | 200 | 130 | | ug/L | | 65 | 37 - 106 |
| N-Nitrosodiphenylamine | 200 | 150 | | ug/L | | 75 | 34 - 108 |
| Phenanthrene | 200 | 133 | | ug/L | | 67 | 34 - 107 |
| Pyrene | 200 | 127 | | ug/L | | 64 | 36 - 115 |
| 4-Chloro-3-methylphenol | 200 | 140 | | ug/L | | 70 | 40 - 107 |
| 2-Chlorophenol | 200 | 139 | | ug/L | | 70 | 34 - 100 |
| 2-Methylphenol | 200 | 131 | | ug/L | | 65 | 34 - 101 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-45505/2-A**
**Matrix: Water**
**Analysis Batch: 45848**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45505**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | | | 200 | 142 | | ug/L | | 71 | 34 - 106 | | |
| 2,4-Dimethylphenol | | | 200 | 117 | | ug/L | | 59 | 34 - 98 | | |
| 2,4-Dinitrophenol | | | 200 | 125 | | ug/L | | 62 | 3 - 125 | | |
| 4,6-Dinitro-2-methylphenol | | | 200 | 134 | | ug/L | | 67 | 24 - 121 | | |
| 2-Nitrophenol | | | 200 | 141 | | ug/L | | 70 | 33 - 108 | | |
| 4-Nitrophenol | | | 200 | 140 | | ug/L | | 70 | 29 - 120 | | |
| Pentachlorophenol | | | 200 | 90.1 | | ug/L | | 45 | 10 - 118 | | |
| Phenol | | | 200 | 127 | | ug/L | | 63 | 35 - 98 | | |
| 2,4,5-Trichlorophenol | | | 200 | 143 | | ug/L | | 71 | 31 - 111 | | |
| 2,4,6-Trichlorophenol | | | 200 | 144 | | ug/L | | 72 | 34 - 110 | | |
| Methylphenol, 3 & 4 | | | 200 | 139 | | ug/L | | 70 | 34 - 104 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *71* | | *37 - 104* |
| *2-Fluorobiphenyl* | *65* | | *35 - 108* |
| *Terphenyl-d14* | *72* | | *25 - 130* |
| *Phenol-d5* | *73* | | *30 - 102* |
| *2-Fluorophenol* | *74* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *78* | | *33 - 122* |

**Lab Sample ID: LCSD 180-45505/3-A**
**Matrix: Water**
**Analysis Batch: 45848**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45505**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 200 | 129 | | ug/L | | 64 | 39 - 106 | 3 | 32 |
| Acenaphthylene | | | 200 | 127 | | ug/L | | 63 | 40 - 113 | 6 | 33 |
| Anthracene | | | 200 | 136 | | ug/L | | 68 | 37 - 108 | 4 | 40 |
| Benzo[a]anthracene | | | 200 | 133 | | ug/L | | 67 | 40 - 103 | 2 | 33 |
| Benzo[a]pyrene | | | 200 | 149 | | ug/L | | 75 | 37 - 105 | 3 | 35 |
| Benzo[b]fluoranthene | | | 200 | 131 | | ug/L | | 65 | 35 - 100 | 1 | 44 |
| Benzo[g,h,i]perylene | | | 200 | 143 | | ug/L | | 72 | 31 - 118 | 2 | 45 |
| Benzo[k]fluoranthene | | | 200 | 137 | | ug/L | | 69 | 37 - 108 | 0 | 42 |
| Bis(2-chloroethyl)ether | | | 200 | 133 | | ug/L | | 67 | 34 - 96 | 3 | 34 |
| Bis(2-chloroethoxy)methane | | | 200 | 135 | | ug/L | | 67 | 36 - 101 | 5 | 35 |
| bis (2-chloroisopropyl) ether | | | 200 | 107 | | ug/L | | 53 | 30 - 100 | 5 | 38 |
| Bis(2-ethylhexyl) phthalate | | | 200 | 134 | | ug/L | | 67 | 35 - 112 | 2 | 34 |
| 4-Bromophenyl phenyl ether | | | 200 | 139 | | ug/L | | 70 | 38 - 108 | 2 | 40 |
| Butyl benzyl phthalate | | | 200 | 136 | | ug/L | | 68 | 34 - 110 | 1 | 35 |
| Carbazole | | | 200 | 146 | | ug/L | | 73 | 35 - 113 | 5 | 32 |
| 4-Chloroaniline | | | 200 | 142 | | ug/L | | 71 | 26 - 99 | 1 | 55 |
| 2-Chloronaphthalene | | | 200 | 134 | | ug/L | | 67 | 37 - 102 | 5 | 34 |
| 4-Chlorophenyl phenyl ether | | | 200 | 140 | | ug/L | | 70 | 39 - 107 | 5 | 34 |
| Chrysene | | | 200 | 136 | | ug/L | | 68 | 39 - 103 | 4 | 38 |
| Dibenz(a,h)anthracene | | | 200 | 142 | | ug/L | | 71 | 32 - 117 | 2 | 43 |
| Dibenzofuran | | | 200 | 136 | | ug/L | | 68 | 37 - 107 | 4 | 32 |
| Di-n-butyl phthalate | | | 200 | 149 | | ug/L | | 75 | 36 - 113 | 0 | 39 |
| 3,3'-Dichlorobenzidine | | | 200 | 143 | | ug/L | | 71 | 11 - 106 | 4 | 56 |
| Diethyl phthalate | | | 200 | 140 | | ug/L | | 70 | 39 - 112 | 7 | 32 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45505/3-A**
**Matrix: Water**
**Analysis Batch: 45848**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45505**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimethyl phthalate | | | 200 | 142 | | ug/L | | 71 | 40 - 110 | 5 | 33 |
| 2,4-Dinitrotoluene | | | 200 | 148 | | ug/L | | 74 | 41 - 117 | 1 | 32 |
| 2,6-Dinitrotoluene | | | 200 | 147 | | ug/L | | 73 | 42 - 118 | 7 | 33 |
| Di-n-octyl phthalate | | | 200 | 139 | | ug/L | | 70 | 27 - 118 | 1 | 36 |
| Fluoranthene | | | 200 | 145 | | ug/L | | 72 | 35 - 111 | 4 | 43 |
| Fluorene | | | 200 | 133 | | ug/L | | 67 | 39 - 107 | 4 | 33 |
| Hexachlorobenzene | | | 200 | 147 | | ug/L | | 73 | 35 - 106 | 2 | 36 |
| Hexachlorobutadiene | | | 200 | 136 | | ug/L | | 68 | 30 - 103 | 2 | 41 |
| Hexachlorocyclopentadiene | | | 200 | 39.0 | | ug/L | | 19 | 19 - 116 | 2 | 57 |
| Hexachloroethane | | | 200 | 132 | | ug/L | | 66 | 27 - 94 | 3 | 43 |
| Indeno[1,2,3-cd]pyrene | | | 200 | 141 | | ug/L | | 70 | 32 - 116 | 3 | 45 |
| Isophorone | | | 200 | 137 | | ug/L | | 68 | 39 - 108 | 5 | 36 |
| 2-Methylnaphthalene | | | 200 | 134 | | ug/L | | 67 | 36 - 101 | 4 | 35 |
| Naphthalene | | | 200 | 134 | | ug/L | | 67 | 35 - 98 | 3 | 39 |
| 2-Nitroaniline | | | 200 | 130 | | ug/L | | 65 | 37 - 114 | 5 | 33 |
| 3-Nitroaniline | | | 200 | 146 | | ug/L | | 73 | 32 - 117 | 6 | 46 |
| 4-Nitroaniline | | | 200 | 153 | | ug/L | | 77 | 32 - 117 | 8 | 39 |
| Nitrobenzene | | | 200 | 133 | | ug/L | | 66 | 37 - 103 | 3 | 34 |
| N-Nitrosodi-n-propylamine | | | 200 | 122 | | ug/L | | 61 | 37 - 106 | 6 | 36 |
| N-Nitrosodiphenylamine | | | 200 | 147 | | ug/L | | 73 | 34 - 108 | 2 | 42 |
| Phenanthrene | | | 200 | 125 | | ug/L | | 63 | 34 - 107 | 6 | 34 |
| Pyrene | | | 200 | 122 | | ug/L | | 61 | 36 - 115 | 5 | 38 |
| 4-Chloro-3-methylphenol | | | 200 | 133 | | ug/L | | 67 | 40 - 107 | 5 | 32 |
| 2-Chlorophenol | | | 200 | 135 | | ug/L | | 68 | 34 - 100 | 3 | 31 |
| 2-Methylphenol | | | 200 | 126 | | ug/L | | 63 | 34 - 101 | 4 | 34 |
| 2,4-Dichlorophenol | | | 200 | 139 | | ug/L | | 70 | 34 - 106 | 2 | 33 |
| 2,4-Dimethylphenol | | | 200 | 113 | | ug/L | | 56 | 34 - 98 | 4 | 34 |
| 2,4-Dinitrophenol | | | 200 | 124 | | ug/L | | 62 | 3 - 125 | 1 | 62 |
| 4,6-Dinitro-2-methylphenol | | | 200 | 134 | | ug/L | | 67 | 24 - 121 | 0 | 50 |
| 2-Nitrophenol | | | 200 | 142 | | ug/L | | 71 | 33 - 108 | 1 | 41 |
| 4-Nitrophenol | | | 200 | 134 | | ug/L | | 67 | 29 - 120 | 4 | 39 |
| Pentachlorophenol | | | 200 | 91.7 | | ug/L | | 46 | 10 - 118 | 2 | 49 |
| Phenol | | | 200 | 124 | | ug/L | | 62 | 35 - 98 | 3 | 35 |
| 2,4,5-Trichlorophenol | | | 200 | 141 | | ug/L | | 70 | 31 - 111 | 1 | 32 |
| 2,4,6-Trichlorophenol | | | 200 | 141 | | ug/L | | 71 | 34 - 110 | 2 | 35 |
| Methylphenol, 3 & 4 | | | 200 | 130 | | ug/L | | 65 | 34 - 104 | 7 | 34 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *69* | | *37 - 104* |
| *2-Fluorobiphenyl* | *63* | | *35 - 108* |
| *Terphenyl-d14* | *71* | | *25 - 130* |
| *Phenol-d5* | *71* | | *30 - 102* |
| *2-Fluorophenol* | *72* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *78* | | *33 - 122* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-46200/1-A**
**Matrix: Solid**
**Analysis Batch: 46367**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46200**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 67 | 6.4 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Acetophenone | ND | | 330 | 27 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Acenaphthylene | ND | | 67 | 7.6 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Anthracene | ND | | 67 | 6.5 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Benzo[a]anthracene | ND | | 67 | 8.4 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Benzo[a]pyrene | ND | | 67 | 6.7 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Benzo[b]fluoranthene | ND | | 67 | 10 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Benzo[g,h,i]perylene | ND | | 67 | 6.6 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Benzo[k]fluoranthene | ND | | 67 | 13 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Bis(2-chloroethyl)ether | ND | | 67 | 9.0 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 330 | 22 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 67 | 7.2 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 670 | 54 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 330 | 29 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Butyl benzyl phthalate | ND | | 330 | 46 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Carbazole | ND | | 67 | 6.1 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 4-Chloroaniline | ND | | 330 | 27 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2-Chloronaphthalene | ND | | 67 | 7.0 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 330 | 37 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Chrysene | ND | | 67 | 7.9 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Dibenz(a,h)anthracene | ND | | 67 | 7.4 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Dibenzofuran | ND | | 330 | 33 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Di-n-butyl phthalate | ND | | 330 | 42 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 330 | 35 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Diethyl phthalate | ND | | 330 | 36 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Dimethyl phthalate | ND | | 330 | 36 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2,4-Dinitrotoluene | ND | | 330 | 27 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2,6-Dinitrotoluene | ND | | 330 | 34 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Di-n-octyl phthalate | ND | | 330 | 35 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Fluoranthene | ND | | 67 | 7.1 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Fluorene | ND | | 67 | 8.8 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Hexachlorobenzene | ND | | 67 | 7.1 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Hexachlorobutadiene | ND | | 67 | 7.5 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Hexachlorocyclopentadiene | ND | | 330 | 36 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Hexachloroethane | ND | | 330 | 24 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 67 | 6.9 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Isophorone | ND | | 330 | 25 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2-Methylnaphthalene | ND | | 67 | 6.0 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Naphthalene | ND | | 67 | 5.7 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2-Nitroaniline | ND | | 1700 | 150 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 3-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 4-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Nitrobenzene | ND | | 670 | 28 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 67 | 7.8 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| N-Nitrosodiphenylamine | ND | | 330 | 31 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Phenanthrene | ND | | 67 | 11 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Pyrene | ND | | 67 | 6.7 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 4-Chloro-3-methylphenol | ND | | 330 | 31 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2-Chlorophenol | ND | | 330 | 27 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-46200/1-A**
**Matrix: Solid**
**Analysis Batch: 46367**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46200**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | ND | | 330 | 23 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2,4-Dichlorophenol | ND | | 67 | 6.7 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2,4-Dimethylphenol | ND | | 330 | 52 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2,4-Dinitrophenol | ND | | 1700 | 400 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1700 | 130 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2-Nitrophenol | ND | | 330 | 37 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 4-Nitrophenol | ND | | 1700 | 120 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Pentachlorophenol | ND | | 330 | 30 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Phenol | ND | | 67 | 7.9 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2,4,5-Trichlorophenol | ND | | 330 | 36 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 2,4,6-Trichlorophenol | ND | | 330 | 50 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| 1,1'-Biphenyl | ND | | 330 | 30 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Caprolactam | ND | | 1700 | 250 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Benzaldehyde | ND | | 330 | 50 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Atrazine | ND | | 330 | 32 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |
| Methylphenol, 3 & 4 | ND | | 330 | 33 | ug/Kg | | 08/24/12 10:44 | 08/25/12 13:46 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *82* | | *25 - 104* | *08/24/12 10:44* | *08/25/12 13:46* | *1* |
| *2-Fluorobiphenyl* | *79* | | *35 - 105* | *08/24/12 10:44* | *08/25/12 13:46* | *1* |
| *Terphenyl-d14* | *85* | | *25 - 127* | *08/24/12 10:44* | *08/25/12 13:46* | *1* |
| *Phenol-d5* | *86* | | *25 - 105* | *08/24/12 10:44* | *08/25/12 13:46* | *1* |
| *2-Fluorophenol* | *87* | | *39 - 103* | *08/24/12 10:44* | *08/25/12 13:46* | *1* |
| *2,4,6-Tribromophenol* | *96* | | *35 - 124* | *08/24/12 10:44* | *08/25/12 13:46* | *1* |

**Lab Sample ID: LCS 180-46200/2-A**
**Matrix: Solid**
**Analysis Batch: 46367**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46200**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 6670 | 5440 | | ug/Kg | | 82 | 47 - 104 |
| Acenaphthylene | 6670 | 6070 | | ug/Kg | | 91 | 49 - 114 |
| Anthracene | 6670 | 5570 | | ug/Kg | | 84 | 45 - 112 |
| Benzo[a]anthracene | 6670 | 5260 | | ug/Kg | | 79 | 47 - 110 |
| Benzo[a]pyrene | 6670 | 5540 | | ug/Kg | | 83 | 47 - 112 |
| Benzo[b]fluoranthene | 6670 | 5080 | | ug/Kg | | 76 | 41 - 107 |
| Benzo[g,h,i]perylene | 6670 | 5590 | | ug/Kg | | 84 | 38 - 126 |
| Benzo[k]fluoranthene | 6670 | 4660 | | ug/Kg | | 70 | 44 - 115 |
| Bis(2-chloroethyl)ether | 6670 | 4920 | | ug/Kg | | 74 | 38 - 99 |
| Bis(2-chloroethoxy)methane | 6670 | 5030 | | ug/Kg | | 75 | 44 - 101 |
| bis (2-chloroisopropyl) ether | 6670 | 4620 | | ug/Kg | | 69 | 36 - 101 |
| Bis(2-ethylhexyl) phthalate | 6670 | 5770 | | ug/Kg | | 86 | 40 - 122 |
| 4-Bromophenyl phenyl ether | 6670 | 5960 | | ug/Kg | | 89 | 47 - 110 |
| Butyl benzyl phthalate | 6670 | 5880 | | ug/Kg | | 88 | 41 - 118 |
| Carbazole | 6670 | 5150 | | ug/Kg | | 77 | 45 - 114 |
| 4-Chloroaniline | 6670 | 5140 | | ug/Kg | | 77 | 25 - 108 |
| 2-Chloronaphthalene | 6670 | 5490 | | ug/Kg | | 82 | 46 - 101 |
| 4-Chlorophenyl phenyl ether | 6670 | 5590 | | ug/Kg | | 84 | 47 - 109 |
| Chrysene | 6670 | 5140 | | ug/Kg | | 77 | 46 - 111 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-46200/2-A**
**Matrix: Solid**
**Analysis Batch: 46367**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46200**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | 6670 | 5750 | | ug/Kg | | 86 | 39 - 127 |
| Dibenzofuran | 6670 | 5210 | | ug/Kg | | 78 | 46 - 104 |
| Di-n-butyl phthalate | 6670 | 5550 | | ug/Kg | | 83 | 43 - 121 |
| 3,3'-Dichlorobenzidine | 6670 | 5600 | | ug/Kg | | 84 | 19 - 122 |
| Diethyl phthalate | 6670 | 5400 | | ug/Kg | | 81 | 47 - 115 |
| Dimethyl phthalate | 6670 | 5450 | | ug/Kg | | 82 | 49 - 111 |
| 2,4-Dinitrotoluene | 6670 | 5690 | | ug/Kg | | 85 | 45 - 124 |
| 2,6-Dinitrotoluene | 6670 | 5800 | | ug/Kg | | 87 | 50 - 122 |
| Di-n-octyl phthalate | 6670 | 5420 | | ug/Kg | | 81 | 33 - 129 |
| Fluoranthene | 6670 | 5260 | | ug/Kg | | 79 | 40 - 120 |
| Fluorene | 6670 | 5530 | | ug/Kg | | 83 | 46 - 109 |
| Hexachlorobenzene | 6670 | 5700 | | ug/Kg | | 86 | 47 - 108 |
| Hexachlorobutadiene | 6670 | 5210 | | ug/Kg | | 78 | 43 - 107 |
| Hexachlorocyclopentadiene | 6670 | 7320 | | ug/Kg | | 110 | 23 - 129 |
| Hexachloroethane | 6670 | 4790 | | ug/Kg | | 72 | 37 - 97 |
| Indeno[1,2,3-cd]pyrene | 6670 | 5670 | | ug/Kg | | 85 | 41 - 125 |
| Isophorone | 6670 | 5550 | | ug/Kg | | 83 | 47 - 110 |
| 2-Methylnaphthalene | 6670 | 5000 | | ug/Kg | | 75 | 45 - 100 |
| Naphthalene | 6670 | 5080 | | ug/Kg | | 76 | 43 - 100 |
| 2-Nitroaniline | 6670 | 5910 | | ug/Kg | | 89 | 45 - 117 |
| 3-Nitroaniline | 6670 | 5550 | | ug/Kg | | 83 | 34 - 122 |
| 4-Nitroaniline | 6670 | 5350 | | ug/Kg | | 80 | 38 - 123 |
| Nitrobenzene | 6670 | 5270 | | ug/Kg | | 79 | 43 - 104 |
| N-Nitrosodi-n-propylamine | 6670 | 4830 | | ug/Kg | | 72 | 42 - 107 |
| N-Nitrosodiphenylamine | 6670 | 5820 | | ug/Kg | | 87 | 44 - 111 |
| Phenanthrene | 6670 | 5290 | | ug/Kg | | 79 | 43 - 108 |
| Pyrene | 6670 | 5310 | | ug/Kg | | 80 | 41 - 115 |
| 4-Chloro-3-methylphenol | 6670 | 4970 | | ug/Kg | | 75 | 47 - 109 |
| 2-Chlorophenol | 6670 | 5190 | | ug/Kg | | 78 | 40 - 101 |
| 2-Methylphenol | 6670 | 4960 | | ug/Kg | | 74 | 40 - 104 |
| 2,4-Dichlorophenol | 6670 | 5360 | | ug/Kg | | 80 | 47 - 105 |
| 2,4-Dimethylphenol | 6670 | 5270 | | ug/Kg | | 79 | 44 - 105 |
| 2,4-Dinitrophenol | 6670 | 6050 | | ug/Kg | | 91 | 10 - 146 |
| 4,6-Dinitro-2-methylphenol | 6670 | 5980 | | ug/Kg | | 90 | 24 - 134 |
| 2-Nitrophenol | 6670 | 5700 | | ug/Kg | | 86 | 46 - 106 |
| 4-Nitrophenol | 6670 | 6030 | | ug/Kg | | 90 | 36 - 127 |
| Pentachlorophenol | 6670 | 5930 | | ug/Kg | | 89 | 17 - 122 |
| Phenol | 6670 | 5090 | | ug/Kg | | 76 | 41 - 102 |
| 2,4,5-Trichlorophenol | 6670 | 5570 | | ug/Kg | | 84 | 48 - 108 |
| 2,4,6-Trichlorophenol | 6670 | 6010 | | ug/Kg | | 90 | 50 - 106 |
| Methylphenol, 3 & 4 | 13300 | 10700 | | ug/Kg | | 80 | 42 - 105 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *86* | | *25 - 104* |
| *2-Fluorobiphenyl* | *86* | | *35 - 105* |
| *Terphenyl-d14* | *87* | | *25 - 127* |
| *Phenol-d5* | *84* | | *25 - 105* |
| *2-Fluorophenol* | *88* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *104* | | *35 - 124* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

**Lab Sample ID: MB 180-45793/1-A**
**Matrix: Solid**
**Analysis Batch: 46007**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45793**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/21/12 13:00 | 08/22/12 11:02 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *80* | | *39 - 115* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *2-Fluorobiphenyl* | *69* | | *35 - 115* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *Terphenyl-d14* | *70* | | *30 - 143* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *Phenol-d5* | *86* | | *30 - 118* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *2-Fluorophenol* | *79* | | *20 - 110* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |
| *2,4,6-Tribromophenol* | *70* | | *19 - 138* | *08/21/12 13:00* | *08/22/12 11:02* | *1* |

**Lab Sample ID: LCS 180-45793/2-A**
**Matrix: Solid**
**Analysis Batch: 46007**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45793**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.251 | 0.163 | | mg/L | | 65 | 37 - 115 |
| Pyridine | 0.251 | 0.172 | | mg/L | | 69 | 22 - 105 |
| 2,4-Dinitrotoluene | 0.251 | 0.118 | | mg/L | | 47 | 40 - 115 |
| Hexachlorobenzene | 0.251 | 0.125 | | mg/L | | 50 | 45 - 115 |
| Hexachlorobutadiene | 0.251 | 0.151 | | mg/L | | 60 | 42 - 115 |
| Hexachloroethane | 0.251 | 0.155 | | mg/L | | 62 | 25 - 106 |
| Nitrobenzene | 0.251 | 0.174 | | mg/L | | 69 | 40 - 115 |
| 2-Methylphenol | 0.251 | 0.170 | | mg/L | | 68 | 43 - 115 |
| Pentachlorophenol | 0.253 | 0.102 | J | mg/L | | 40 | 16 - 140 |
| 2,4,5-Trichlorophenol | 0.251 | 0.144 | | mg/L | | 57 | 35 - 115 |
| 2,4,6-Trichlorophenol | 0.251 | 0.149 | | mg/L | | 59 | 40 - 115 |
| Methylphenol, 3 & 4 | 0.501 | 0.356 | | mg/L | | 71 | 30 - 121 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *71* | | *39 - 115* |
| *2-Fluorobiphenyl* | *61* | | *35 - 115* |
| *Terphenyl-d14* | *67* | | *30 - 143* |
| *Phenol-d5* | *80* | | *30 - 118* |
| *2-Fluorophenol* | *72* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *61* | | *19 - 138* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-45793/3-A**
**Matrix: Solid**
**Analysis Batch: 46007**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45793**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | | | 0.251 | 0.176 | | mg/L | | 70 | 37 - 115 | 8 | 35 |
| Pyridine | | | 0.251 | 0.205 | | mg/L | | 82 | 22 - 105 | 17 | 40 |
| 2,4-Dinitrotoluene | | | 0.251 | 0.120 | | mg/L | | 48 | 40 - 115 | 1 | 42 |
| Hexachlorobenzene | | | 0.251 | 0.145 | | mg/L | | 58 | 45 - 115 | 15 | 22 |
| Hexachlorobutadiene | | | 0.251 | 0.154 | | mg/L | | 61 | 42 - 115 | 2 | 28 |
| Hexachloroethane | | | 0.251 | 0.194 | | mg/L | | 77 | 25 - 106 | 22 | 38 |
| Nitrobenzene | | | 0.251 | 0.176 | | mg/L | | 70 | 40 - 115 | 1 | 26 |
| 2-Methylphenol | | | 0.251 | 0.180 | | mg/L | | 72 | 43 - 115 | 6 | 47 |
| Pentachlorophenol | | | 0.253 | 0.107 | J | mg/L | | 42 | 16 - 140 | 5 | 40 |
| 2,4,5-Trichlorophenol | | | 0.251 | 0.152 | | mg/L | | 61 | 35 - 115 | 6 | 40 |
| 2,4,6-Trichlorophenol | | | 0.251 | 0.150 | | mg/L | | 60 | 40 - 115 | 1 | 37 |
| Methylphenol, 3 & 4 | | | 0.501 | 0.397 | | mg/L | | 79 | 30 - 121 | 11 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *72* | | *39 - 115* |
| *2-Fluorobiphenyl* | *62* | | *35 - 115* |
| *Terphenyl-d14* | *74* | | *30 - 143* |
| *Phenol-d5* | *82* | | *30 - 118* |
| *2-Fluorophenol* | *80* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *66* | | *19 - 138* |

**Lab Sample ID: LB 180-45619/25-B LB**
**Matrix: Solid**
**Analysis Batch: 46007**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45793**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 08/21/12 13:00 | 08/22/12 11:44 | 1 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *74* | | *39 - 115* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *2-Fluorobiphenyl* | *58* | | *35 - 115* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *Terphenyl-d14* | *69* | | *30 - 143* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *Phenol-d5* | *77* | | *30 - 118* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *2-Fluorophenol* | *69* | | *20 - 110* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |
| *2,4,6-Tribromophenol* | *67* | | *19 - 138* | *08/21/12 13:00* | *08/22/12 11:44* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-247591/3**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 10:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/23/12 10:56* | *1* |

**Lab Sample ID: LCS 680-247591/4**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.200 | 0.203 | | mg/L | | 102 | 70 - 148 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 130* |

**Lab Sample ID: LCSD 680-247591/5**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.200 | 0.210 | | mg/L | | 105 | 70 - 148 | 3 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *101* | | *70 - 130* |

**Lab Sample ID: MB 680-247709/4**
**Matrix: Solid**
**Analysis Batch: 247709**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/24/12 13:06 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *85* | | *70 - 131* | | *08/24/12 13:06* | *1* |

**Lab Sample ID: LCS 680-247709/5**
**Matrix: Solid**
**Analysis Batch: 247709**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 1.00 | 0.867 | | mg/Kg | | 87 | 64 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247709/6**
**Matrix: Solid**
**Analysis Batch: 247709**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.916 | | mg/Kg | | 92 | 64 - 133 | 5 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *92* | | *70 - 131* |

**Lab Sample ID: MB 680-247880/3**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/27/12 12:36 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *88* | | *70 - 131* | | *08/27/12 12:36* | *1* |

**Lab Sample ID: LCS 680-247880/4**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.783 | | mg/Kg | | 78 | 64 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247880/5**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.899 | | mg/Kg | | 90 | 64 - 133 | 14 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *93* | | *70 - 131* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-247146/17-A**
**Matrix: Water**
**Analysis Batch: 248247**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247146**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 08/20/12 15:02 | 08/29/12 18:21 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 680-247146/17-A**
**Matrix: Water**
**Analysis Batch: 248247**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247146**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| o-Terphenyl | 81 | | 62 - 130 | 08/20/12 15:02 | 08/29/12 18:21 | 1 |

**Lab Sample ID: LCS 680-247146/18-A**
**Matrix: Water**
**Analysis Batch: 248247**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247146**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.00 | 0.600 | | mg/L | | 60 | 25 - 145 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| o-Terphenyl | 73 | | 62 - 130 |

**Lab Sample ID: MB 680-247172/21-A**
**Matrix: Solid**
**Analysis Batch: 247633**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247172**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/21/12 14:46 | 08/23/12 10:35 | 1 |

**Lab Sample ID: LCS 680-247172/22-A**
**Matrix: Solid**
**Analysis Batch: 247633**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247172**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.3 | 22.8 | | mg/Kg | | 68 | 19 - 171 |

**Lab Sample ID: 180-13443-3 MS**
**Matrix: Solid**
**Analysis Batch: 247633**

**Client Sample ID: 47W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 247172**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 5.5 | | 39.1 | 29.7 | | mg/Kg | ☼ | 62 | 19 - 171 |

**Lab Sample ID: 180-13443-3 MSD**
**Matrix: Solid**
**Analysis Batch: 247633**

**Client Sample ID: 47W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 247172**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 5.5 | | 38.8 | 31.2 | | mg/Kg | ☼ | 66 | 19 - 171 | 5 | 50 |

**Lab Sample ID: MB 680-247827/7-A**
**Matrix: Solid**
**Analysis Batch: 248361**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247827**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/27/12 16:24 | 08/30/12 11:10 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 680-247827/8-A**
**Matrix: Solid**
**Analysis Batch: 248361**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247827**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 32.9 | 26.0 | | mg/Kg | | 79 | 19 - 171 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-45431/1-A**
**Matrix: Water**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45431**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.40 | 0.10 | ug/L | | 08/17/12 12:30 | 08/28/12 02:12 | 1 |
| PCB-1221 | ND | | 0.40 | 0.10 | ug/L | | 08/17/12 12:30 | 08/28/12 02:12 | 1 |
| PCB-1232 | ND | | 0.40 | 0.12 | ug/L | | 08/17/12 12:30 | 08/28/12 02:12 | 1 |
| PCB-1242 | ND | | 0.40 | 0.074 | ug/L | | 08/17/12 12:30 | 08/28/12 02:12 | 1 |
| PCB-1248 | ND | | 0.40 | 0.091 | ug/L | | 08/17/12 12:30 | 08/28/12 02:12 | 1 |
| PCB-1254 | ND | | 0.40 | 0.092 | ug/L | | 08/17/12 12:30 | 08/28/12 02:12 | 1 |
| PCB-1260 | ND | | 0.40 | 0.054 | ug/L | | 08/17/12 12:30 | 08/28/12 02:12 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* | *08/17/12 12:30* | *08/28/12 02:12* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *89* | | *35 - 140* | *08/17/12 12:30* | *08/28/12 02:12* | *1* |

**Lab Sample ID: LCS 180-45431/2-A**
**Matrix: Water**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45431**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| PCB-1016 | 40.0 | 31.6 | | ug/L | | 79 | 60 - 130 |
| PCB-1260 | 40.0 | 32.6 | | ug/L | | 82 | 60 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *84* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *92* | | *35 - 140* |

**Lab Sample ID: LCSD 180-45431/3-A**
**Matrix: Water**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45431**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | 40.0 | 32.5 | | ug/L | | 81 | 60 - 130 | 3 | 27 |
| PCB-1260 | 40.0 | 33.7 | | ug/L | | 84 | 60 - 130 | 3 | 24 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *81* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/27/12 16:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *85* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 16:21* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* | *08/18/12 05:50* | *08/27/12 16:21* | *1* |

**Lab Sample ID: MB 180-45454/1-C**
**Matrix: Solid**
**Analysis Batch: 46972**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 08/18/12 05:50 | 08/30/12 11:52 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *94* | | *35 - 140* | *08/18/12 05:50* | *08/30/12 11:52* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *78* | | *35 - 140* | *08/18/12 05:50* | *08/30/12 11:52* | *1* |

**Lab Sample ID: LCS 180-45454/2-C**
**Matrix: Solid**
**Analysis Batch: 46582**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45454**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1030 | | ug/Kg | | 77 | 55 - 130 | | |
| PCB-1260 | | | 1330 | 1090 | | ug/Kg | | 82 | 54 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 180-45571/1-A**
**Matrix: Water**
**Analysis Batch: 45878**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45571**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 10 | 2.7 | ug/L | | 08/20/12 11:05 | 08/21/12 16:51 | 1 |
| Barium | ND | | 200 | 0.62 | ug/L | | 08/20/12 11:05 | 08/21/12 16:51 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 08/20/12 11:05 | 08/21/12 16:51 | 1 |
| Chromium | ND | | 5.0 | 0.57 | ug/L | | 08/20/12 11:05 | 08/21/12 16:51 | 1 |
| Lead | ND | | 3.0 | 1.3 | ug/L | | 08/20/12 11:05 | 08/21/12 16:51 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 08/20/12 11:05 | 08/21/12 16:51 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 08/20/12 11:05 | 08/21/12 16:51 | 1 |

**Lab Sample ID: LCS 180-45571/2-A**
**Matrix: Water**
**Analysis Batch: 45878**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45571**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 500 | 499 | | ug/L | | 100 | 80 - 120 |
| Barium | 2000 | 1990 | | ug/L | | 99 | 80 - 120 |
| Cadmium | 50.0 | 48.4 | | ug/L | | 97 | 80 - 120 |
| Chromium | 200 | 198 | | ug/L | | 99 | 80 - 120 |
| Lead | 500 | 491 | | ug/L | | 98 | 80 - 120 |
| Selenium | 500 | 496 | | ug/L | | 99 | 80 - 120 |
| Silver | 50.0 | 51.4 | | ug/L | | 103 | 80 - 120 |

**Lab Sample ID: MB 180-45892/1-A**
**Matrix: Solid**
**Analysis Batch: 46302**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45892**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Selenium | ND | | 0.050 | 0.0030 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/22/12 10:51 | 08/25/12 01:28 | 1 |

**Lab Sample ID: LCS 180-45892/2-A**
**Matrix: Solid**
**Analysis Batch: 46302**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45892**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.500 | 0.506 | | mg/L | | 101 | 80 - 120 |
| Barium | 2.00 | 1.88 | | mg/L | | 94 | 80 - 120 |
| Cadmium | 0.0500 | 0.0472 | J | mg/L | | 94 | 80 - 120 |
| Chromium | 0.200 | 0.193 | | mg/L | | 97 | 80 - 120 |
| Lead | 0.500 | 0.489 | | mg/L | | 98 | 80 - 120 |
| Selenium | 0.500 | 0.521 | | mg/L | | 104 | 80 - 120 |
| Silver | 0.0500 | 0.0506 | | mg/L | | 101 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 180-46212/1-A**
**Matrix: Solid**
**Analysis Batch: 46547**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46212**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 1.0 | 0.22 | mg/Kg | | 08/24/12 11:43 | 08/25/12 11:33 | 1 |
| Barium | 0.111 | J | 20 | 0.050 | mg/Kg | | 08/24/12 11:43 | 08/25/12 11:33 | 1 |
| Cadmium | ND | | 0.50 | 0.024 | mg/Kg | | 08/24/12 11:43 | 08/25/12 11:33 | 1 |
| Lead | ND | | 0.30 | 0.15 | mg/Kg | | 08/24/12 11:43 | 08/25/12 11:33 | 1 |
| Selenium | ND | | 0.50 | 0.21 | mg/Kg | | 08/24/12 11:43 | 08/25/12 11:33 | 1 |
| Silver | ND | | 0.50 | 0.058 | mg/Kg | | 08/24/12 11:43 | 08/25/12 11:33 | 1 |

**Lab Sample ID: MB 180-46212/1-A**
**Matrix: Solid**
**Analysis Batch: 46547**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46212**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | 0.0970 | J | 0.50 | 0.085 | mg/Kg | | 08/24/12 11:43 | 08/25/12 16:02 | 1 |

**Lab Sample ID: LCS 180-46212/2-A**
**Matrix: Solid**
**Analysis Batch: 46547**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46212**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 50.0 | 47.4 | | mg/Kg | | 95 | 80 - 120 |
| Barium | 200 | 193 | | mg/Kg | | 96 | 80 - 120 |
| Cadmium | 5.00 | 4.73 | | mg/Kg | | 95 | 80 - 120 |
| Lead | 50.0 | 47.8 | | mg/Kg | | 96 | 80 - 120 |
| Selenium | 50.0 | 46.6 | | mg/Kg | | 93 | 80 - 120 |
| Silver | 5.00 | 4.89 | | mg/Kg | | 98 | 80 - 120 |

**Lab Sample ID: LCS 180-46212/2-A**
**Matrix: Solid**
**Analysis Batch: 46547**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46212**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Chromium | 20.0 | 19.3 | | mg/Kg | | 97 | 80 - 120 |

**Lab Sample ID: LB 180-45619/25-E LB**
**Matrix: Solid**
**Analysis Batch: 46302**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 45892**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Cadmium | 0.000170 | J | 0.050 | 0.00013 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Selenium | 0.00697 | J | 0.050 | 0.0030 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 08/22/12 10:51 | 08/25/12 01:33 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-46026/1-A**
**Matrix: Solid**
**Analysis Batch: 46130**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46026**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 08/23/12 08:59 | 08/23/12 14:59 | 1 |

**Lab Sample ID: LCS 180-46026/2-A**
**Matrix: Solid**
**Analysis Batch: 46130**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46026**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00264 | | mg/L | | 106 | 80 - 120 |

**Lab Sample ID: MB 180-47008/1-A**
**Matrix: Water**
**Analysis Batch: 47062**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47008**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 08/31/12 11:21 | 08/31/12 14:55 | 1 |

**Lab Sample ID: LCS 180-47008/2-A**
**Matrix: Water**
**Analysis Batch: 47062**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47008**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.50 | 2.53 | | ug/L | | 101 | 80 - 120 |

**Lab Sample ID: LB 180-45619/25-F LB**
**Matrix: Solid**
**Analysis Batch: 46130**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 46026**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000191 | J | 0.00020 | 0.000038 | mg/L | | 08/23/12 08:59 | 08/23/12 15:07 | 1 |

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 180-46944/1-A**
**Matrix: Solid**
**Analysis Batch: 46987**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46944**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.033 | 0.011 | mg/Kg | | 08/31/12 03:13 | 08/31/12 09:00 | 1 |

**Lab Sample ID: LCS 180-46944/2-A**
**Matrix: Solid**
**Analysis Batch: 46987**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 46944**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.417 | 0.385 | | mg/Kg | | 92 | 80 - 120 |

## Method: 1664A - HEM and SGT-HEM

**Lab Sample ID: MB 180-47194/1-A**
**Matrix: Water**
**Analysis Batch: 47223**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47194**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 2.60 | J | 5.0 | 1.5 | mg/L | | 09/04/12 11:34 | 09/04/12 11:34 | 1 |

**Lab Sample ID: LCS 180-47194/2-A**
**Matrix: Water**
**Analysis Batch: 47223**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47194**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.0 | | mg/L | | 88 | 78 - 114 |

**Lab Sample ID: LCSD 180-47194/3-A**
**Matrix: Water**
**Analysis Batch: 47223**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47194**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 36.0 | | mg/L | | 90 | 78 - 114 | 3 | 18 |

**Lab Sample ID: MB 180-47319/1-A**
**Matrix: Water**
**Analysis Batch: 47421**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47319**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 1.60 | J | 5.0 | 1.5 | mg/L | | 09/05/12 10:53 | 09/05/12 10:53 | 1 |

**Lab Sample ID: LCS 180-47319/2-A**
**Matrix: Water**
**Analysis Batch: 47421**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47319**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 34.9 | | mg/L | | 87 | 78 - 114 |

**Lab Sample ID: LCSD 180-47319/3-A**
**Matrix: Water**
**Analysis Batch: 47421**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47319**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.4 | | mg/L | | 89 | 78 - 114 | 1 | 18 |

## Method: 9012A - Cyanide, Total and/or Amenable

**Lab Sample ID: MB 180-46048/5-A**
**Matrix: Solid**
**Analysis Batch: 46107**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 46048**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | ND | | 0.50 | 0.097 | mg/Kg | | 08/23/12 09:50 | 08/23/12 13:17 | 1 |

## Method: 9012A - Cyanide, Total and/or Amenable (Continued)

**Lab Sample ID: HLCS 180-46048/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46107** — **Prep Batch: 46048**

| Analyte | Spike Added | HLCS Result | HLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.250 | 0.246 | | mg/Kg | | 98 | 90 - 110 |

**Lab Sample ID: LCS 180-46048/3-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46107** — **Prep Batch: 46048**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 28.1 | 23.4 | | mg/Kg | | 83 | 38 - 162 |

**Lab Sample ID: LCSD 180-46048/4-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46107** — **Prep Batch: 46048**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Cyanide, Total | 28.1 | 24.0 | | mg/Kg | | 86 | 38 - 162 | 3 | 20 |

**Lab Sample ID: LLCS 180-46048/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 46107** — **Prep Batch: 46048**

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Cyanide, Total | 0.0500 | 0.0487 | | mg/Kg | | 97 | 90 - 110 |

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 680-247668/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 247676** — **Prep Batch: 247668**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 11:59 | 1 |

**Lab Sample ID: LCS 680-247668/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 247676** — **Prep Batch: 247668**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.100 | | mg/L | | 102 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.100 | | mg/L | | 102 | 60 - 140 |

**Lab Sample ID: MB 680-247689/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 247691** — **Prep Batch: 247689**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/23/12 08:25 | 08/24/12 13:38 | 1 |

## Method: 9020B - Organic Halides, Total (TOX) (Continued)

**Lab Sample ID: LCS 680-247689/2-A**
**Matrix: Water**
**Analysis Batch: 247691**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247689**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.0976 | | mg/L | | 99 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.0976 | | mg/L | | 99 | 60 - 140 |

**Lab Sample ID: MB 680-248418/1-A**
**Matrix: Water**
**Analysis Batch: 248422**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 248418**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/30/12 08:20 | 08/30/12 08:20 | 1 |

**Lab Sample ID: LCS 680-248418/2-A**
**Matrix: Water**
**Analysis Batch: 248422**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 248418**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.104 | | mg/L | | 105 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.104 | | mg/L | | 105 | 60 - 140 |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-17933/2-A**
**Matrix: Solid**
**Analysis Batch: 18201**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 17933**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.0 | mg/Kg | | 09/05/12 13:28 | 09/05/12 13:48 | 1 |

**Lab Sample ID: LCS 490-17933/1-A**
**Matrix: Solid**
**Analysis Batch: 18201**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 17933**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1040 | | mg/Kg | | 100 | 90 - 110 |

**Lab Sample ID: 180-13443-13 MS**
**Matrix: Solid**
**Analysis Batch: 18201**

**Client Sample ID: 56@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 17933**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 1120 | 1030 | | mg/Kg | ☼ | 92 | 70 - 130 |

**Lab Sample ID: 180-13443-13 MSD**
**Matrix: Solid**
**Analysis Batch: 18201**

**Client Sample ID: 56@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 17933**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 1120 | 997 | | mg/Kg | ☼ | 89 | 70 - 130 | 3 | 20 |

## Method: 9023 - Organic Halides, Extractable (EOX) (Continued)

**Lab Sample ID: MB 490-18660/2-A**
**Matrix: Solid**
**Analysis Batch: 18664**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18660**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 21.0 | | 10 | 7.0 | mg/Kg | | 09/07/12 12:00 | 09/07/12 13:53 | 1 |

**Lab Sample ID: LCS 490-18660/1-A**
**Matrix: Solid**
**Analysis Batch: 18664**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18660**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1040 | | mg/Kg | | 100 | 90 - 110 |

**Lab Sample ID: 180-13443-22 MS**
**Matrix: Solid**
**Analysis Batch: 18664**

**Client Sample ID: 14WD@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 18660**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 1240 | 911 | | mg/Kg | ☼ | 74 | 70 - 130 |

**Lab Sample ID: 180-13443-22 MSD**
**Matrix: Solid**
**Analysis Batch: 18664**

**Client Sample ID: 14WD@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 18660**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 1240 | 942 | | mg/Kg | ☼ | 76 | 70 - 130 | 3 | 20 |

## Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

**Lab Sample ID: MB 180-45665/1-A**
**Matrix: Solid**
**Analysis Batch: 45666**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 45665**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide | ND | | 30 | 6.0 | mg/Kg | | 08/20/12 14:02 | 08/20/12 18:35 | 1 |

**Lab Sample ID: LCS 180-45665/2-A**
**Matrix: Solid**
**Analysis Batch: 45666**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 45665**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Sulfide | 192 | 190 | | mg/Kg | | 99 | 85 - 115 |

**Lab Sample ID: LCSD 180-45665/3-A**
**Matrix: Solid**
**Analysis Batch: 45666**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 45665**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 192 | 184 | | mg/Kg | | 95 | 85 - 115 | 3 | 20 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13443-1

## Method: 9045C - pH

**Lab Sample ID: LCS 180-47075/1**
**Matrix: Solid**
**Analysis Batch: 47075**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| pH | 7.00 | 6.950 | | SU | | 99 | 99 - 101 |

**Lab Sample ID: 180-13443-5 DU**
**Matrix: Solid**
**Analysis Batch: 47075**

**Client Sample ID: 52W@2-4'**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|
| pH | 5.10 | H | 5.110 | | SU | | 0.2 | 2 |

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-47436/1-A**
**Matrix: Solid**
**Analysis Batch: 47479**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47436**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 36.7 | J | 170 | 23 | mg/Kg | | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

**Lab Sample ID: LCS 180-47436/2-A**
**Matrix: Solid**
**Analysis Batch: 47479**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47436**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1210 | | mg/Kg | | 91 | 78 - 114 |

**Lab Sample ID: LCSD 180-47436/3-A**
**Matrix: Solid**
**Analysis Batch: 47479**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47436**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1200 | | mg/Kg | | 90 | 78 - 114 | 1 | 18 |

## GC/MS VOA

### Analysis Batch: 45487

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-2 | 42W | Total/NA | Water | 8260B | |
| 180-13443-4 | 47W | Total/NA | Water | 8260B | |
| 180-13443-8 | 53W | Total/NA | Water | 8260B | |
| 180-13443-10 | 54W | Total/NA | Water | 8260B | |
| 180-13443-12 | 55W | Total/NA | Water | 8260B | |
| LCS 180-45487/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 180-45487/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 45524

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-6 | 52W | Total/NA | Water | 8260B | |
| 180-13443-15 | 14W | Total/NA | Water | 8260B | |
| 180-13443-17 | 25W | Total/NA | Water | 8260B | |
| 180-13443-19 | 48W | Total/NA | Water | 8260B | |
| 180-13443-23 | 14WD | Total/NA | Water | 8260B | |
| 180-13443-24 | TRIP BLANK | Total/NA | Water | 8260B | |
| MB 180-45524/3 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 45606

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-21 | 51W | Total/NA | Water | 8260B | |
| LCS 180-45606/7 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 180-45606/4 | Method Blank | Total/NA | Water | 8260B | |

### Leach Batch: 45774

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 1311 | |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 1311 | |
| LB 180-45774/9-A LB | Method Blank | TCLP | Solid | 1311 | |

### Analysis Batch: 46005

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 8260B | 45774 |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 8260B | 45774 |
| LB 180-45774/9-A LB | Method Blank | TCLP | Solid | 8260B | 45774 |
| LCS 180-46005/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 180-46005/6 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

### Analysis Batch: 247766

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | 8260B | |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | 8260B | |
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 8260B | |
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | 8260B | |
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | 8260B | |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | 8260B | |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | 8260B | |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | 8260B | |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | 8260B | |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | 8260B | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 8260B | |
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | 8260B | |

## GC/MS VOA (Continued)

### Analysis Batch: 247766 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-247766/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 680-247766/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |
| MB 680-247766/7 | Method Blank | Total/NA | Solid | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 45505

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-6 | 52W | Total/NA | Water | 3520C | |
| 180-13443-21 | 51W | Total/NA | Water | 3520C | |
| LCS 180-45505/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 180-45505/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 180-45505/1-A | Method Blank | Total/NA | Water | 3520C | |

### Leach Batch: 45619

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 1311 | |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 1311 | |
| LB 180-45619/25-B LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 45793

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 3510C | 45619 |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 3510C | 45619 |
| LB 180-45619/25-B LB | Method Blank | TCLP | Solid | 3510C | 45619 |
| LCS 180-45793/2-A | Lab Control Sample | Total/NA | Solid | 3510C | |
| LCSD 180-45793/3-A | Lab Control Sample Dup | Total/NA | Solid | 3510C | |
| MB 180-45793/1-A | Method Blank | Total/NA | Solid | 3510C | |

### Analysis Batch: 45848

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-6 | 52W | Total/NA | Water | 8270C | 45505 |
| 180-13443-21 | 51W | Total/NA | Water | 8270C | 45505 |
| LCS 180-45505/2-A | Lab Control Sample | Total/NA | Water | 8270C | 45505 |
| LCSD 180-45505/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C | 45505 |
| MB 180-45505/1-A | Method Blank | Total/NA | Water | 8270C | 45505 |

### Analysis Batch: 46007

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 8270C | 45793 |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 8270C | 45793 |
| LB 180-45619/25-B LB | Method Blank | TCLP | Solid | 8270C | 45793 |
| LCS 180-45793/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 45793 |
| LCSD 180-45793/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 45793 |
| MB 180-45793/1-A | Method Blank | Total/NA | Solid | 8270C | 45793 |

### Prep Batch: 46200

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 3541 | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 3541 | |
| LCS 180-46200/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-46200/1-A | Method Blank | Total/NA | Solid | 3541 | |

## GC/MS Semi VOA (Continued)

### Analysis Batch: 46367

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 8270C | 46200 |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 8270C | 46200 |
| LCS 180-46200/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 46200 |
| MB 180-46200/1-A | Method Blank | Total/NA | Solid | 8270C | 46200 |

## GC VOA

### Analysis Batch: 247591

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-2 | 42W | Total/NA | Water | 8015B | |
| 180-13443-4 | 47W | Total/NA | Water | 8015B | |
| 180-13443-6 | 52W | Total/NA | Water | 8015B | |
| 180-13443-8 | 53W | Total/NA | Water | 8015B | |
| 180-13443-10 | 54W | Total/NA | Water | 8015B | |
| 180-13443-12 | 55W | Total/NA | Water | 8015B | |
| 180-13443-15 | 14W | Total/NA | Water | 8015B | |
| 180-13443-17 | 25W | Total/NA | Water | 8015B | |
| 180-13443-19 | 48W | Total/NA | Water | 8015B | |
| 180-13443-21 | 51W | Total/NA | Water | 8015B | |
| 180-13443-23 | 14WD | Total/NA | Water | 8015B | |
| LCS 680-247591/4 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-247591/5 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-247591/3 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 247709

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | 8015B | |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | 8015B | |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | 8015B | |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | 8015B | |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | 8015B | |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | 8015B | |
| LCS 680-247709/5 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247709/6 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247709/4 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 247880

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | 8015B | |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | 8015B | |
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 8015B | |
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | 8015B | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 8015B | |
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | 8015B | |
| LCS 680-247880/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247880/5 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247880/3 | Method Blank | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 45431

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-6 | 52W | Total/NA | Water | 3510C | |
| 180-13443-21 | 51W | Total/NA | Water | 3510C | |
| LCS 180-45431/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 180-45431/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 180-45431/1-A | Method Blank | Total/NA | Water | 3510C | |

### Prep Batch: 45454

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 3541 | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 3541 | |
| LCS 180-45454/2-C | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 46582

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 8082 | 45454 |
| 180-13443-6 | 52W | Total/NA | Water | 8082 | 45431 |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 8082 | 45454 |
| 180-13443-21 | 51W | Total/NA | Water | 8082 | 45431 |
| LCS 180-45431/2-A | Lab Control Sample | Total/NA | Water | 8082 | 45431 |
| LCS 180-45454/2-C | Lab Control Sample | Total/NA | Solid | 8082 | 45454 |
| LCSD 180-45431/3-A | Lab Control Sample Dup | Total/NA | Water | 8082 | 45431 |
| MB 180-45431/1-A | Method Blank | Total/NA | Water | 8082 | 45431 |
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 8082 | 45454 |

### Analysis Batch: 46972

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 180-45454/1-C | Method Blank | Total/NA | Solid | 8082 | 45454 |

### Prep Batch: 247146

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-2 | 42W | Total/NA | Water | 3520C | |
| 180-13443-4 | 47W | Total/NA | Water | 3520C | |
| 180-13443-6 | 52W | Total/NA | Water | 3520C | |
| 180-13443-8 | 53W | Total/NA | Water | 3520C | |
| 180-13443-10 | 54W | Total/NA | Water | 3520C | |
| 180-13443-12 | 55W | Total/NA | Water | 3520C | |
| 180-13443-15 | 14W | Total/NA | Water | 3520C | |
| 180-13443-17 | 25W | Total/NA | Water | 3520C | |
| 180-13443-19 | 48W | Total/NA | Water | 3520C | |
| 180-13443-21 | 51W | Total/NA | Water | 3520C | |
| 180-13443-23 | 14WD | Total/NA | Water | 3520C | |
| LCS 680-247146/18-A | Lab Control Sample | Total/NA | Water | 3520C | |
| MB 680-247146/17-A | Method Blank | Total/NA | Water | 3520C | |

### Prep Batch: 247172

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | 3546 | |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | 3546 | |
| 180-13443-3 MS | 47W@2-4' | Total/NA | Solid | 3546 | |
| 180-13443-3 MSD | 47W@2-4' | Total/NA | Solid | 3546 | |
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 3546 | |

## GC Semi VOA (Continued)

### Prep Batch: 247172 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | 3546 | |
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | 3546 | |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | 3546 | |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | 3546 | |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | 3546 | |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | 3546 | |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | 3546 | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 3546 | |
| LCS 680-247172/22-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-247172/21-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 247633

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-3 MS | 47W@2-4' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-3 MSD | 47W@2-4' | Total/NA | Solid | 8015B | 247172 |
| LCS 680-247172/22-A | Lab Control Sample | Total/NA | Solid | 8015B | 247172 |
| MB 680-247172/21-A | Method Blank | Total/NA | Solid | 8015B | 247172 |

### Analysis Batch: 247756

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | 8015B | 247172 |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 8015B | 247172 |

### Prep Batch: 247827

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | 3546 | |
| LCS 680-247827/8-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-247827/7-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 248247

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-2 | 42W | Total/NA | Water | 8015B | 247146 |
| 180-13443-4 | 47W | Total/NA | Water | 8015B | 247146 |
| 180-13443-6 | 52W | Total/NA | Water | 8015B | 247146 |
| LCS 680-247146/18-A | Lab Control Sample | Total/NA | Water | 8015B | 247146 |
| MB 680-247146/17-A | Method Blank | Total/NA | Water | 8015B | 247146 |

### Analysis Batch: 248255

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-8 | 53W | Total/NA | Water | 8015B | 247146 |
| 180-13443-10 | 54W | Total/NA | Water | 8015B | 247146 |
| 180-13443-12 | 55W | Total/NA | Water | 8015B | 247146 |
| 180-13443-15 | 14W | Total/NA | Water | 8015B | 247146 |

## GC Semi VOA (Continued)

### Analysis Batch: 248255 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-17 | 25W | Total/NA | Water | 8015B | 247146 |
| 180-13443-19 | 48W | Total/NA | Water | 8015B | 247146 |
| 180-13443-21 | 51W | Total/NA | Water | 8015B | 247146 |
| 180-13443-23 | 14WD | Total/NA | Water | 8015B | 247146 |

### Analysis Batch: 248361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | 8015B | 247827 |
| LCS 680-247827/8-A | Lab Control Sample | Total/NA | Solid | 8015B | 247827 |
| MB 680-247827/7-A | Method Blank | Total/NA | Solid | 8015B | 247827 |

## Metals

### Prep Batch: 45571

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-6 | 52W | Total/NA | Water | 3010A | |
| 180-13443-21 | 51W | Total/NA | Water | 3010A | |
| LCS 180-45571/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| MB 180-45571/1-A | Method Blank | Total/NA | Water | 3010A | |

### Leach Batch: 45619

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 1311 | |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 1311 | |
| LB 180-45619/25-E LB | Method Blank | TCLP | Solid | 1311 | |
| LB 180-45619/25-F LB | Method Blank | TCLP | Solid | 1311 | |

### Analysis Batch: 45878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-6 | 52W | Total/NA | Water | 6010B | 45571 |
| 180-13443-21 | 51W | Total/NA | Water | 6010B | 45571 |
| LCS 180-45571/2-A | Lab Control Sample | Total/NA | Water | 6010B | 45571 |
| MB 180-45571/1-A | Method Blank | Total/NA | Water | 6010B | 45571 |

### Prep Batch: 45892

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 3010A | 45619 |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 3010A | 45619 |
| LB 180-45619/25-E LB | Method Blank | TCLP | Solid | 3010A | 45619 |
| LCS 180-45892/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |
| MB 180-45892/1-A | Method Blank | Total/NA | Solid | 3010A | |

### Prep Batch: 46026

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 7470A | 45619 |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 7470A | 45619 |
| LB 180-45619/25-F LB | Method Blank | TCLP | Solid | 7470A | 45619 |
| LCS 180-46026/2-A | Lab Control Sample | Total/NA | Solid | 7470A | |
| MB 180-46026/1-A | Method Blank | Total/NA | Solid | 7470A | |

## Metals (Continued)

### Analysis Batch: 46130

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 7470A | 46026 |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 7470A | 46026 |
| LB 180-45619/25-F LB | Method Blank | TCLP | Solid | 7470A | 46026 |
| LCS 180-46026/2-A | Lab Control Sample | Total/NA | Solid | 7470A | 46026 |
| MB 180-46026/1-A | Method Blank | Total/NA | Solid | 7470A | 46026 |

### Prep Batch: 46212

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 3050B | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 3050B | |
| LCS 180-46212/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 180-46212/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 46302

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | TCLP | Solid | 6010B | 45892 |
| 180-13443-20 | 51W@8-10' | TCLP | Solid | 6010B | 45892 |
| LB 180-45619/25-E LB | Method Blank | TCLP | Solid | 6010B | 45892 |
| LCS 180-45892/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 45892 |
| MB 180-45892/1-A | Method Blank | Total/NA | Solid | 6010B | 45892 |

### Analysis Batch: 46547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 6010B | 46212 |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 6010B | 46212 |
| LCS 180-46212/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 46212 |
| LCS 180-46212/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 46212 |
| MB 180-46212/1-A | Method Blank | Total/NA | Solid | 6010B | 46212 |
| MB 180-46212/1-A | Method Blank | Total/NA | Solid | 6010B | 46212 |

### Prep Batch: 46944

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 7471A | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 7471A | |
| LCS 180-46944/2-A | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 180-46944/1-A | Method Blank | Total/NA | Solid | 7471A | |

### Analysis Batch: 46987

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 7471A | 46944 |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 7471A | 46944 |
| LCS 180-46944/2-A | Lab Control Sample | Total/NA | Solid | 7471A | 46944 |
| MB 180-46944/1-A | Method Blank | Total/NA | Solid | 7471A | 46944 |

### Prep Batch: 47008

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-6 | 52W | Total/NA | Water | 7470A | |
| 180-13443-21 | 51W | Total/NA | Water | 7470A | |
| LCS 180-47008/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-47008/1-A | Method Blank | Total/NA | Water | 7470A | |

## Metals (Continued)

### Analysis Batch: 47062

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-6 | 52W | Total/NA | Water | 7470A | 47008 |
| 180-13443-21 | 51W | Total/NA | Water | 7470A | 47008 |
| LCS 180-47008/2-A | Lab Control Sample | Total/NA | Water | 7470A | 47008 |
| MB 180-47008/1-A | Method Blank | Total/NA | Water | 7470A | 47008 |

## General Chemistry

### Prep Batch: 17933

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | 9023 | |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-13 MS | 56@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-13 MSD | 56@2-4' | Total/NA | Solid | 9023 | |
| LCS 490-17933/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-17933/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 18201

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | 9023 | 17933 |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | 9023 | 17933 |
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | 9023 | 17933 |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | 9023 | 17933 |
| 180-13443-13 MS | 56@2-4' | Total/NA | Solid | 9023 | 17933 |
| 180-13443-13 MSD | 56@2-4' | Total/NA | Solid | 9023 | 17933 |
| LCS 490-17933/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 17933 |
| MB 490-17933/2-A | Method Blank | Total/NA | Solid | 9023 | 17933 |

### Prep Batch: 18660

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | 9023 | |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | 9023 | |
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-22 MS | 14WD@2-4' | Total/NA | Solid | 9023 | |
| 180-13443-22 MSD | 14WD@2-4' | Total/NA | Solid | 9023 | |
| LCS 490-18660/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-18660/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 18664

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | 9023 | 18660 |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | 9023 | 18660 |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | 9023 | 18660 |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | 9023 | 18660 |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | 9023 | 18660 |
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | 9023 | 18660 |
| 180-13443-22 MS | 14WD@2-4' | Total/NA | Solid | 9023 | 18660 |
| 180-13443-22 MSD | 14WD@2-4' | Total/NA | Solid | 9023 | 18660 |

## General Chemistry (Continued)

### Analysis Batch: 18664 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 490-18660/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 18660 |
| MB 490-18660/2-A | Method Blank | Total/NA | Solid | 9023 | 18660 |

### Analysis Batch: 45236

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | Moisture | |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | Moisture | |
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | Moisture | |
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | Moisture | |
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | Moisture | |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | Moisture | |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | Moisture | |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | Moisture | |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | Moisture | |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | Moisture | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | Moisture | |
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | Moisture | |

### Prep Batch: 45665

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 9030B | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 9030B | |
| LCS 180-45665/2-A | Lab Control Sample | Total/NA | Solid | 9030B | |
| LCSD 180-45665/3-A | Lab Control Sample Dup | Total/NA | Solid | 9030B | |
| MB 180-45665/1-A | Method Blank | Total/NA | Solid | 9030B | |

### Analysis Batch: 45666

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 9034 | 45665 |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 9034 | 45665 |
| LCS 180-45665/2-A | Lab Control Sample | Total/NA | Solid | 9034 | 45665 |
| LCSD 180-45665/3-A | Lab Control Sample Dup | Total/NA | Solid | 9034 | 45665 |
| MB 180-45665/1-A | Method Blank | Total/NA | Solid | 9034 | 45665 |

### Prep Batch: 46048

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 9012A | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 9012A | |
| HLCS 180-46048/2-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| LCS 180-46048/3-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| LCSD 180-46048/4-A | Lab Control Sample Dup | Total/NA | Solid | 9012A | |
| LLCS 180-46048/1-A | Lab Control Sample | Total/NA | Solid | 9012A | |
| MB 180-46048/5-A | Method Blank | Total/NA | Solid | 9012A | |

### Analysis Batch: 46106

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 1020B | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 1020B | |

### Analysis Batch: 46107

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 9012A | 46048 |

## General Chemistry (Continued)

### Analysis Batch: 46107 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 9012A | 46048 |
| HLCS 180-46048/2-A | Lab Control Sample | Total/NA | Solid | 9012A | 46048 |
| LCS 180-46048/3-A | Lab Control Sample | Total/NA | Solid | 9012A | 46048 |
| LCSD 180-46048/4-A | Lab Control Sample Dup | Total/NA | Solid | 9012A | 46048 |
| LLCS 180-46048/1-A | Lab Control Sample | Total/NA | Solid | 9012A | 46048 |
| MB 180-46048/5-A | Method Blank | Total/NA | Solid | 9012A | 46048 |

### Analysis Batch: 47075

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 9045C | |
| 180-13443-5 DU | 52W@2-4' | Total/NA | Solid | 9045C | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 9045C | |
| LCS 180-47075/1 | Lab Control Sample | Total/NA | Solid | 9045C | |

### Prep Batch: 47194

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-2 | 42W | Total/NA | Water | 1664A | |
| 180-13443-4 | 47W | Total/NA | Water | 1664A | |
| 180-13443-6 | 52W | Total/NA | Water | 1664A | |
| 180-13443-8 | 53W | Total/NA | Water | 1664A | |
| 180-13443-19 | 48W | Total/NA | Water | 1664A | |
| 180-13443-21 | 51W | Total/NA | Water | 1664A | |
| 180-13443-23 | 14WD | Total/NA | Water | 1664A | |
| LCS 180-47194/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-47194/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-47194/1-A | Method Blank | Total/NA | Water | 1664A | |

### Analysis Batch: 47223

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-2 | 42W | Total/NA | Water | 1664A | 47194 |
| 180-13443-4 | 47W | Total/NA | Water | 1664A | 47194 |
| 180-13443-6 | 52W | Total/NA | Water | 1664A | 47194 |
| 180-13443-8 | 53W | Total/NA | Water | 1664A | 47194 |
| 180-13443-19 | 48W | Total/NA | Water | 1664A | 47194 |
| 180-13443-21 | 51W | Total/NA | Water | 1664A | 47194 |
| 180-13443-23 | 14WD | Total/NA | Water | 1664A | 47194 |
| LCS 180-47194/2-A | Lab Control Sample | Total/NA | Water | 1664A | 47194 |
| LCSD 180-47194/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 47194 |
| MB 180-47194/1-A | Method Blank | Total/NA | Water | 1664A | 47194 |

### Prep Batch: 47319

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-10 | 54W | Total/NA | Water | 1664A | |
| 180-13443-12 | 55W | Total/NA | Water | 1664A | |
| 180-13443-15 | 14W | Total/NA | Water | 1664A | |
| 180-13443-17 | 25W | Total/NA | Water | 1664A | |
| LCS 180-47319/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-47319/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-47319/1-A | Method Blank | Total/NA | Water | 1664A | |

## General Chemistry (Continued)

### Analysis Batch: 47421

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-10 | 54W | Total/NA | Water | 1664A | 47319 |
| 180-13443-12 | 55W | Total/NA | Water | 1664A | 47319 |
| 180-13443-15 | 14W | Total/NA | Water | 1664A | 47319 |
| 180-13443-17 | 25W | Total/NA | Water | 1664A | 47319 |
| LCS 180-47319/2-A | Lab Control Sample | Total/NA | Water | 1664A | 47319 |
| LCSD 180-47319/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 47319 |
| MB 180-47319/1-A | Method Blank | Total/NA | Water | 1664A | 47319 |

### Prep Batch: 47436

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | 9071B | |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | 9071B | |
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 9071B | |
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | 9071B | |
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | 9071B | |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | 9071B | |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | 9071B | |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | 9071B | |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | 9071B | |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | 9071B | |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 9071B | |
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | 9071B | |
| LCS 180-47436/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-47436/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-47436/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Analysis Batch: 47479

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-1 | 42W@2-4' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-3 | 47W@2-4' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-5 | 52W@2-4' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-7 | 53W@4-6' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-9 | 54W@2-4' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-11 | 55W@3-5' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-13 | 56@2-4' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-14 | 14W@2-4' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-16 | 25W@2-4' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-18 | 48W@3-5' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-20 | 51W@8-10' | Total/NA | Solid | 9071B | 47436 |
| 180-13443-22 | 14WD@2-4' | Total/NA | Solid | 9071B | 47436 |
| LCS 180-47436/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 47436 |
| LCSD 180-47436/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 47436 |
| MB 180-47436/1-A | Method Blank | Total/NA | Solid | 9071B | 47436 |

### Prep Batch: 247668

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-15 | 14W | Total/NA | Water | Carbon Trap | |
| LCS 680-247668/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-247668/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

## General Chemistry (Continued)

### Analysis Batch: 247676

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-15 | 14W | Total/NA | Water | 9020B | 247668 |
| LCS 680-247668/2-A | Lab Control Sample | Total/NA | Water | 9020B | 247668 |
| MB 680-247668/1-A | Method Blank | Total/NA | Water | 9020B | 247668 |

### Prep Batch: 247689

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-2 | 42W | Total/NA | Water | Carbon Trap | |
| 180-13443-4 | 47W | Total/NA | Water | Carbon Trap | |
| 180-13443-8 | 53W | Total/NA | Water | Carbon Trap | |
| 180-13443-10 | 54W | Total/NA | Water | Carbon Trap | |
| 180-13443-12 | 55W | Total/NA | Water | Carbon Trap | |
| LCS 680-247689/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-247689/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 247691

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-2 | 42W | Total/NA | Water | 9020B | 247689 |
| 180-13443-4 | 47W | Total/NA | Water | 9020B | 247689 |
| 180-13443-8 | 53W | Total/NA | Water | 9020B | 247689 |
| 180-13443-10 | 54W | Total/NA | Water | 9020B | 247689 |
| 180-13443-12 | 55W | Total/NA | Water | 9020B | 247689 |
| LCS 680-247689/2-A | Lab Control Sample | Total/NA | Water | 9020B | 247689 |
| MB 680-247689/1-A | Method Blank | Total/NA | Water | 9020B | 247689 |

### Prep Batch: 248418

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-17 | 25W | Total/NA | Water | Carbon Trap | |
| 180-13443-19 | 48W | Total/NA | Water | Carbon Trap | |
| 180-13443-23 | 14WD | Total/NA | Water | Carbon Trap | |
| LCS 680-248418/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-248418/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 248422

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13443-17 | 25W | Total/NA | Water | 9020B | 248418 |
| 180-13443-19 | 48W | Total/NA | Water | 9020B | 248418 |
| 180-13443-23 | 14WD | Total/NA | Water | 9020B | 248418 |
| LCS 680-248418/2-A | Lab Control Sample | Total/NA | Water | 9020B | 248418 |
| MB 680-248418/1-A | Method Blank | Total/NA | Water | 9020B | 248418 |

180-13443

# Chain of Custody Record

53, 48, 31, 22, 23, 4, 9, 21 #2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: 1 of 3 COCs |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: (804) 513-8080 | Telephone: | |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only: |
| Phone: (804) 442-3330 | | TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab pickup: ☐ Lab sampler: ☐ |
| Project Name: | Method of Shipment/Carrier: | | | Job/SDG No.: |
| Project Number: | Shipping/Tracking No: | | | |
| PO # | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C/Grab G | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EDX | PCBs | METALS | TCLP (FULL) | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 42W @ 2-4' | 8/13/12 | 10:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 42W | | 10:45 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 47W @ 2-4' | | 9:15 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 47W | | 9:30 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 52W @ 2-4' | | 1:40 | | | | X | | | | | | | | | | | X | X | X | X | | X | X | X | |
| 52W | | 2:00 | | X | | | | X | X | X | | | | | | | X | X | X | X | | X | X | | |
| 53W @ 4-6' | | 12:00 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 53W | | 12:30 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 54W @ 2-4' | | 11:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 54W | 8/13/12 | 11:50 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Company: EEE | Date/Time: 8/14/12 13:10 | Received by: | Company: TA | Date/Time: 8/14/12 1310 |
| Relinquished by: | Company: TA | Date/Time: 8/14/12 1700 | Received by: | Company: TA D.T+ | Date/Time: 8-15-12 900 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

9/10/2012

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | 2 of 3 COCs |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only |
| Phone: 804-442-3330 | | TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab picking up: ☐ Lab sampling: ☐ Job/SDG No.: |
| Project Name: | Method of Shipment/Carrier: | | | |
| Project Number: | Shipping/Tracking No: | | | |
| PO # | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite=C / Grab=G | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EDB | PCBs | Metals | TCLP (Full) | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 55W@ 3-5' | 8/13/12 | 3:15 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 55W | 8/13/12 | 3:30 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 56@ 2-4' | 8/13/12 | 2:45 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 14W@ 2-4' | 8/14/12 | 9:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 14W | 8/14/12 | 9:50 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 25W@ 2-4' | 8/14/12 | 8:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 25W | 8/14/12 | 9:00 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 48W@ 3-5' | 8/14/12 | 11:00 | | | | X | | | | | | | | | | | X | X | | | X | | | | |
| 48W | 8/14/12 | 11:40 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | |
| 51WC 8-10' | 8/14/12 | 12:00 | | | | X | | | | | | | | | | | X | X | X | X | | X | X | X | |

**Possible Hazard Identification**
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

**Sample Disposal** ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

**Special Instructions/QC Requirements & Comments:**

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Company: EEE | Date/Time: 8/14/12 13:10 | Received by: | Company: TA | Date/Time: 8/14/12 1310 |
| Relinquished by: | Company: TA | Date/Time: 8/14/12 1700 | Received by: | Company: TAL-TF | Date/Time: 8-15-12 9:00 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

9/10/2012

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: 3 of 3 COCs |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | | For lab use only: Walk-in client ☐ Lab sampling ☐ |
| Phone: 804-442-3330 | | TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Job/SDG No.: |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: | Filtered Sample (Y / N) | Composite (C) / Grab (G) | Analyses: Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EDX | PCBs | Metals | TCLP (full) | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 51 W[redacted] | 8/14/12 | 12:30 | | X | | | | X | X | X | | | | | | | X | X | X | X | | X | X | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: | Company: EEE | Date/Time: 8/14/12 13:10 | Received by: | Company: TA | Date/Time: 8/14/12 1310 |
| Relinquished by: | Company: TA | Date/Time: 8/14/12 1740 | Received by: | Company: TA PITT | Date/Time: 8/15/12 900 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2009, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13443-1

**Login Number: 13443**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13443-1

**Login Number: 13443**
**List Number: 1**
**Creator: Gambill, Shane**

**List Source: TestAmerica Nashville**
**List Creation: 08/31/12 08:23 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | N/A | |
| 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13443-1

**Login Number: 13443**
**List Number: 1**
**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**
**List Creation: 08/17/12 11:23 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | N/A | |
| 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13443-1

**Login Number: 13443**
**List Number: 2**
**Creator: Brantley, Willie**

**List Source: TestAmerica Savannah**
**List Creation: 08/22/12 11:04 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | | |
| The cooler's custody seal, if present, is intact. | | |
| The cooler or samples do not appear to have been compromised or tampered with. | | |
| Samples were received on ice. | | |
| Cooler Temperature is acceptable. | | |
| Cooler Temperature is recorded. | | |
| COC is present. | | |
| COC is filled out in ink and legible. | | |
| COC is filled out with all pertinent information. | | |
| Is the Field Sampler's name present on COC? | | |
| There are no discrepancies between the sample IDs on the containers and the COC. | | |
| Samples are received within Holding Time. | | |
| Sample containers have legible labels. | | |
| Containers are not broken or leaking. | | |
| Sample collection date/times are provided. | | |
| Appropriate sample containers are used. | | |
| Sample bottles are completely filled. | | |
| Sample Preservation Verified. | | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | | |
| Multiphasic samples are not present. | | |
| Samples do not require splitting or compositing. | | |
| Residual Chlorine Checked. | | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13443-1

**Login Number: 13443**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13486-1
Client Project/Site: Midtown Tunnel (MTT-MLK)

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

Veronica Bortot

*Authorized for release by:*
*9/12/2012 3:49:20 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 6
Certification Summary . . . . . 7
Sample Summary . . . . . 10
Method Summary . . . . . 11
Client Sample Results . . . . . 12
QC Sample Results . . . . . 18
QC Association . . . . . 28
Chain of Custody . . . . . 33
Receipt Checklists . . . . . 34

## Job ID: 180-13486-1

**Laboratory: TestAmerica Pittsburgh**

**Narrative**

### CASE NARRATIVE

### Client: EEE Consulting, Inc.

### Project: Midtown Tunnel (MTT-MLK)

### Report Number: 180-13486-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**Receipt**
The samples were received on 8/16/2012 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.9º C and 2.3º C.

Except:
Trip Blank was listed on the COC, but was not received in the shipment

**VOLATILES**
Samples 50W@9-11' (180-13486-1), 49W@8-10' (180-13486-3), 49WD@8-10' (180-13486-5), 4W@2-4' (180-13486-7) and 37 (180-13486-9) were analyzed for Volatiles in accordance with EPA Method SW8260B. The samples were analyzed on 08/25/2012 and 08/27/2012.

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: 180-13320-6, 180-13320-6 MS, 180-13320-6 MSD. Elevated reporting limits (RLs) are provided. Batch #45935.

No other analytical or quality issues were noted.

**LOW LEVEL VOLATILE ORGANIC COMPOUNDS**
Samples 50W (180-13486-2), 49W (180-13486-4), 49WD (180-13486-6) and 4W (180-13486-8) were analyzed for Low Level Volatile Organic Compounds in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/22/2012.

No difficulties were encountered during the VOA analysis.

All quality control parameters were within the acceptance limits.

**GAS RANGE ORGANICS 8015**
Samples 50W@9-11' (180-13486-1), 49W@8-10' (180-13486-3), 49WD@8-10' (180-13486-5), 4W@2-4' (180-13486-7) and 37 (180-13486-9) were analyzed for 8015 in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 08/27/2012.

a,a,a-Trifluorotoluene failed the surrogate recovery criteria high for 49W@8-10' (180-13486-3). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported

## Job ID: 180-13486-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

Samples 49W@8-10' (180-13486-3)[20X] and 49WD@8-10' (180-13486-5)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples 50W (180-13486-2), 49W (180-13486-4), 49WD (180-13486-6) and 4W (180-13486-8) were analyzed for gas range organics in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 08/23/2012 and 08/29/2012.

No other difficulties were encountered during the GRO analysis.

No difficulties were encountered during the GRO analysis.

**DIESEL RANGE ORGANICS**

Samples 50W@9-11' (180-13486-1), 49W@8-10' (180-13486-3), 49WD@8-10' (180-13486-5), 4W@2-4' (180-13486-7) and 37 (180-13486-9) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 08/22/2012 and analyzed on 08/29/2012, 08/30/2012 and 09/01/2012.

Surrogate recovery for the following sample(s) was outside control limits: 180-13486-3, 180-13486-7. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Samples 50W (180-13486-2), 49W (180-13486-4), 49WD (180-13486-6) and 4W (180-13486-8) were analyzed for Diesel Range Organics (DRO) in accordance with EPA Method 8015B. The samples were prepared on 08/20/2012 and analyzed on 08/29/2012.

Surrogate recovery for the following sample(s) was outside control limits: 180-13486-8. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

No other difficulties were encountered during the DRO analysis.

All other quality control parameters were within the acceptance limits.

**SGT-HEM (Oil & Grease)**

Samples 50W (180-13486-2), 49W (180-13486-4), 49WD (180-13486-6) and 4W (180-13486-8) were analyzed for SGT-HEM (TPH) in accordance with EPA Method 1664A. The samples were prepared and analyzed on 09/05/2012 and 09/06/2012.

HEM (Oil and Grease) was detected in method blank MB 180-47319/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. HEM (Oil and Grease) was detected in method blank MB 180-47519/3-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Samples 50W@9-11' (180-13486-1), 49W@8-10' (180-13486-3), 49WD@8-10' (180-13486-5), 4W@2-4' (180-13486-7) and 37 (180-13486-9) were analyzed for oil and grease in accordance with EPA SW-846 Method 9017B. The samples were prepared and analyzed on 09/06/2012.

HEM was detected in method blank MB 180-47436/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. HEM was detected in method blank MB 180-47439/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the SGT-HEM analysis.

All other quality control parameters were within the acceptance limits.

**TOTAL ORGANIC HALIDES**

Samples 50W (180-13486-2), 49W (180-13486-4), 49WD (180-13486-6) and 4W (180-13486-8) were analyzed for total organic halides in accordance with EPA SW846 Method 9020B. The samples were prepared and analyzed on 08/31/2012.

## Job ID: 180-13486-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

Samples 50W (180-13486-2)[2X] and 4W (180-13486-8)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the TOX analysis.

All quality control parameters were within the acceptance limits.

**EXTRACTABLE ORGANIC HALIDES**

Samples 50W@9-11' (180-13486-1), 49W@8-10' (180-13486-3), 49WD@8-10' (180-13486-5), 4W@2-4' (180-13486-7) and 37 (180-13486-9) were analyzed for extractable organic halides in accordance with EPA SW-846 Method 9023. The samples were prepared and analyzed on 09/07/2012 and 09/10/2012.

Halogens, Extractable Organic was detected in method blank MB 490-18660/2-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No other difficulties were encountered during the EOX analysis.

All other quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples 50W@9-11' (180-13486-1), 49W@8-10' (180-13486-3), 49WD@8-10' (180-13486-5), 4W@2-4' (180-13486-7) and 37 (180-13486-9) were analyzed for percent solids in accordance with EPA methodology. The samples were analyzed on 08/16/2012.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

# Definitions/Glossary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| X | Surrogate is outside control limits |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-12 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-13 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oklahoma | State Program | 6 | 9412 | 08-31-13 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Solid | 08/14/12 01:45 | 08/16/12 09:15 |
| 180-13486-2 | 50W | Water | 08/14/12 02:00 | 08/16/12 09:15 |
| 180-13486-3 | 49W@8-10' | Solid | 08/14/12 03:00 | 08/16/12 09:15 |
| 180-13486-4 | 49W | Water | 08/14/12 03:30 | 08/16/12 09:15 |
| 180-13486-5 | 49WD@8-10' | Solid | 08/14/12 03:00 | 08/16/12 09:15 |
| 180-13486-6 | 49WD | Water | 08/14/12 03:30 | 08/16/12 09:15 |
| 180-13486-7 | 4W@2-4' | Solid | 08/15/12 08:45 | 08/16/12 09:15 |
| 180-13486-8 | 4W | Water | 08/15/12 09:15 | 08/16/12 09:15 |
| 180-13486-9 | 37 | Solid | 08/15/12 11:30 | 08/16/12 09:15 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL SAV |
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 1664A | HEM and SGT-HEM | 1664A | TAL PIT |
| 9020B | Organic Halides, Total (TOX) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Client Sample ID: 50W@9-11'

**Lab Sample ID: 180-13486-1**

**Date Collected: 08/14/12 01:45**
**Matrix: Solid**
**Date Received: 08/16/12 09:15**
**Percent Solids: 71.7**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 7.0 | 1.0 | ug/Kg | ☼ | | 08/25/12 20:17 | 1 |
| Ethylbenzene | ND | | 7.0 | 1.8 | ug/Kg | ☼ | | 08/25/12 20:17 | 1 |
| Toluene | ND | | 7.0 | 1.2 | ug/Kg | ☼ | | 08/25/12 20:17 | 1 |
| Xylenes, Total | ND | | 14 | 1.5 | ug/Kg | ☼ | | 08/25/12 20:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *65 - 130* | | *08/25/12 20:17* | *1* |
| *Dibromofluoromethane* | *104* | | *65 - 130* | | *08/25/12 20:17* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *65 - 130* | | *08/25/12 20:17* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.35 | 0.027 | mg/Kg | ☼ | | 08/27/12 16:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *08/27/12 16:49* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **3.4** | **J** | 4.6 | 2.9 | mg/Kg | ☼ | 08/22/12 15:58 | 08/29/12 23:58 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 14 | 9.8 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| **HEM** | **51** | **J B** | 230 | 32 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **28** | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |
| **Percent Solids** | **72** | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |

## Client Sample ID: 50W

**Lab Sample ID: 180-13486-2**

**Date Collected: 08/14/12 02:00**
**Matrix: Water**
**Date Received: 08/16/12 09:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **3.6** | | 1.0 | 0.11 | ug/L | | | 08/22/12 16:10 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/22/12 16:10 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/22/12 16:10 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/22/12 16:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *106* | | *64 - 135* | | *08/22/12 16:10* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *71 - 118* | | *08/22/12 16:10* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *70 - 118* | | *08/22/12 16:10* | *1* |
| *Dibromofluoromethane (Surr)* | *110* | | *70 - 128* | | *08/22/12 16:10* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.058** | | 0.050 | 0.011 | mg/L | | | 08/23/12 19:35 | 1 |

## Client Sample ID: 50W

**Date Collected: 08/14/12 02:00**
**Date Received: 08/16/12 09:15**

## Lab Sample ID: 180-13486-2

**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *92* | | *70 - 130* | | *08/23/12 19:35* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.31** | | 0.099 | 0.050 | mg/L | | 08/20/12 15:02 | 08/29/12 23:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *77* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 23:02* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.3** | **J B** | 5.6 | 1.7 | mg/L | | 09/06/12 14:19 | 09/06/12 14:19 | 1 |
| **Halogens, Total Organic** | **0.043** | | 0.020 | 0.0070 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 2 |
| **TOX Result 1** | **0.042** | | 0.020 | 0.0070 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 2 |
| **TOX Result 2** | **0.044** | | 0.020 | 0.0070 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 2 |

## Client Sample ID: 49W@8-10'

**Date Collected: 08/14/12 03:00**
**Date Received: 08/16/12 09:15**

## Lab Sample ID: 180-13486-3

**Matrix: Solid**
**Percent Solids: 81.5**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 250 | 36 | ug/Kg | ☼ | | 08/25/12 21:26 | 40 |
| **Ethylbenzene** | **350** | | 250 | 64 | ug/Kg | ☼ | | 08/25/12 21:26 | 40 |
| Toluene | ND | | 250 | 41 | ug/Kg | ☼ | | 08/25/12 21:26 | 40 |
| **Xylenes, Total** | **190** | **J** | 490 | 54 | ug/Kg | ☼ | | 08/25/12 21:26 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *83* | | *65 - 130* | | *08/25/12 21:26* | *40* |
| *Dibromofluoromethane* | *80* | | *65 - 130* | | *08/25/12 21:26* | *40* |
| *Toluene-d8 (Surr)* | *80* | | *65 - 130* | | *08/25/12 21:26* | *40* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **110** | | 6.1 | 0.47 | mg/Kg | ☼ | | 08/27/12 18:46 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *133* | *X* | *70 - 131* | | *08/27/12 18:46* | *20* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **26** | | 4.0 | 2.6 | mg/Kg | ☼ | 08/22/12 15:58 | 08/30/12 00:12 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.6 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| **HEM** | **250** | **B** | 200 | 28 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **19** | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |
| **Percent Solids** | **81** | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-1

## Client Sample ID: 49W

**Lab Sample ID: 180-13486-4**

**Date Collected: 08/14/12 03:30**

**Matrix: Water**

**Date Received: 08/16/12 09:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 2.5 | | 1.0 | 0.11 | ug/L | | | 08/22/12 16:35 | 1 |
| Ethylbenzene | 1.4 | | 1.0 | 0.23 | ug/L | | | 08/22/12 16:35 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/22/12 16:35 | 1 |
| Xylenes, Total | 1.2 | J | 3.0 | 0.49 | ug/L | | | 08/22/12 16:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *64 - 135* | | *08/22/12 16:35* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *71 - 118* | | *08/22/12 16:35* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *70 - 118* | | *08/22/12 16:35* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *70 - 128* | | *08/22/12 16:35* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.30 | | 0.050 | 0.011 | mg/L | | | 08/23/12 20:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *111* | | *70 - 130* | | *08/23/12 20:03* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.4 | | 0.098 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 23:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *85* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 23:16* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 1.8 | J B | 5.6 | 1.7 | mg/L | | 09/06/12 14:19 | 09/06/12 14:19 | 1 |
| Halogens, Total Organic | 0.032 | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |
| TOX Result 1 | 0.031 | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |
| TOX Result 2 | 0.034 | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |

## Client Sample ID: 49WD@8-10'

**Lab Sample ID: 180-13486-5**

**Date Collected: 08/14/12 03:00**

**Matrix: Solid**

**Date Received: 08/16/12 09:15**

**Percent Solids: 80.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 250 | 36 | ug/Kg | ☼ | | 08/27/12 00:37 | 40 |
| Ethylbenzene | ND | | 250 | 64 | ug/Kg | ☼ | | 08/27/12 00:37 | 40 |
| Toluene | ND | | 250 | 42 | ug/Kg | ☼ | | 08/27/12 00:37 | 40 |
| Xylenes, Total | ND | | 490 | 54 | ug/Kg | ☼ | | 08/27/12 00:37 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *81* | | *65 - 130* | | *08/27/12 00:37* | *40* |
| *Dibromofluoromethane* | *74* | | *65 - 130* | | *08/27/12 00:37* | *40* |
| *Toluene-d8 (Surr)* | *70* | | *65 - 130* | | *08/27/12 00:37* | *40* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 92 | | 6.2 | 0.47 | mg/Kg | ☼ | | 08/27/12 19:06 | 20 |

## Client Sample ID: 49WD@8-10'

**Lab Sample ID: 180-13486-5**

**Date Collected: 08/14/12 03:00**
**Matrix: Solid**
**Date Received: 08/16/12 09:15**
**Percent Solids: 80.9**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *112* | | *70 - 131* | | *08/27/12 19:06* | *20* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **38** | | 4.0 | 2.6 | mg/Kg | ☼ | 08/22/12 15:58 | 08/30/12 00:26 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.7 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| **HEM** | **300** | **B** | 210 | 29 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **19** | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |
| **Percent Solids** | **81** | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |

## Client Sample ID: 49WD

**Lab Sample ID: 180-13486-6**

**Date Collected: 08/14/12 03:30**
**Matrix: Water**
**Date Received: 08/16/12 09:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzene** | **2.6** | | 1.0 | 0.11 | ug/L | | | 08/22/12 16:59 | 1 |
| **Ethylbenzene** | **1.7** | | 1.0 | 0.23 | ug/L | | | 08/22/12 16:59 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/22/12 16:59 | 1 |
| **Xylenes, Total** | **1.3** | **J** | 3.0 | 0.49 | ug/L | | | 08/22/12 16:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *64 - 135* | | *08/22/12 16:59* | *1* |
| *Toluene-d8 (Surr)* | *106* | | *71 - 118* | | *08/22/12 16:59* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 118* | | *08/22/12 16:59* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *70 - 128* | | *08/22/12 16:59* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.36** | | 0.050 | 0.011 | mg/L | | | 08/23/12 20:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 130* | | *08/23/12 20:29* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **1.1** | | 0.097 | 0.049 | mg/L | | 08/20/12 15:02 | 08/29/12 23:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *71* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 23:30* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM (Oil and Grease)** | **2.0** | **J B** | 5.6 | 1.7 | mg/L | | 09/06/12 14:19 | 09/06/12 14:19 | 1 |
| **Halogens, Total Organic** | **0.019** | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |
| **TOX Result 1** | **0.019** | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |
| **TOX Result 2** | **0.018** | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |

## Client Sample ID: 4W@2-4'

**Lab Sample ID: 180-13486-7**

**Date Collected: 08/15/12 08:45**
**Matrix: Solid**
**Date Received: 08/16/12 09:15**
**Percent Solids: 81.2**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.1 | 0.90 | ug/Kg | ☼ | | 08/25/12 20:40 | 1 |
| Ethylbenzene | ND | | 6.1 | 1.6 | ug/Kg | ☼ | | 08/25/12 20:40 | 1 |
| Toluene | ND | | 6.1 | 1.0 | ug/Kg | ☼ | | 08/25/12 20:40 | 1 |
| Xylenes, Total | ND | | 12 | 1.4 | ug/Kg | ☼ | | 08/25/12 20:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *96* | | *65 - 130* | | *08/25/12 20:40* | *1* |
| *Dibromofluoromethane* | *103* | | *65 - 130* | | *08/25/12 20:40* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *65 - 130* | | *08/25/12 20:40* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.31 | 0.023 | mg/Kg | ☼ | | 08/27/12 17:09 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *93* | | *70 - 131* | | *08/27/12 17:09* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **2.8** | **J** | 4.0 | 2.6 | mg/Kg | ☼ | 08/22/12 15:58 | 08/30/12 00:40 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.6 | mg/Kg | ☼ | 09/07/12 12:00 | 09/07/12 13:53 | 1 |
| **HEM** | **86** | **J B** | 200 | 28 | mg/Kg | ☼ | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **19** | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |
| **Percent Solids** | **81** | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |

## Client Sample ID: 4W

**Lab Sample ID: 180-13486-8**

**Date Collected: 08/15/12 09:15**
**Matrix: Water**
**Date Received: 08/16/12 09:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/22/12 17:23 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/22/12 17:23 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/22/12 17:23 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/22/12 17:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *64 - 135* | | *08/22/12 17:23* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *71 - 118* | | *08/22/12 17:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *87* | | *70 - 118* | | *08/22/12 17:23* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *70 - 128* | | *08/22/12 17:23* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/29/12 13:52 | 1 |

## Client Sample ID: 4W

**Date Collected: 08/15/12 09:15**
**Date Received: 08/16/12 09:15**

## Lab Sample ID: 180-13486-8

**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *102* | | *70 - 130* | | *08/29/12 13:52* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.19 | | 0.097 | 0.048 | mg/L | | 08/20/12 15:02 | 08/29/12 23:44 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *42* | *X* | *62 - 130* | *08/20/12 15:02* | *08/29/12 23:44* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 19 | J B | 50 | 15 | mg/L | | 09/05/12 10:53 | 09/05/12 10:53 | 1 |
| Halogens, Total Organic | 0.10 | | 0.020 | 0.0070 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 2 |
| TOX Result 1 | 0.10 | | 0.020 | 0.0070 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 2 |
| TOX Result 2 | 0.11 | | 0.020 | 0.0070 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 2 |

## Client Sample ID: 37

**Date Collected: 08/15/12 11:30**
**Date Received: 08/16/12 09:15**

## Lab Sample ID: 180-13486-9

**Matrix: Solid**
**Percent Solids: 78.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.1 | 0.89 | ug/Kg | ☼ | | 08/25/12 21:03 | 1 |
| Ethylbenzene | ND | | 6.1 | 1.6 | ug/Kg | ☼ | | 08/25/12 21:03 | 1 |
| Toluene | ND | | 6.1 | 1.0 | ug/Kg | ☼ | | 08/25/12 21:03 | 1 |
| Xylenes, Total | ND | | 12 | 1.3 | ug/Kg | ☼ | | 08/25/12 21:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *72* | | *65 - 130* | | *08/25/12 21:03* | *1* |
| *Dibromofluoromethane* | *100* | | *65 - 130* | | *08/25/12 21:03* | *1* |
| *Toluene-d8 (Surr)* | *83* | | *65 - 130* | | *08/25/12 21:03* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.32 | 0.024 | mg/Kg | ☼ | | 08/27/12 19:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *126* | | *70 - 131* | | *08/27/12 19:45* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 280 | | 4.2 | 2.7 | mg/Kg | ☼ | 08/22/12 15:58 | 09/01/12 16:55 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 9.6 | J | 13 | 8.9 | mg/Kg | ☼ | 09/10/12 07:00 | 09/10/12 07:30 | 1 |
| HEM | 490 | B | 210 | 29 | mg/Kg | ☼ | 09/06/12 05:47 | 09/06/12 05:47 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 21 | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |
| Percent Solids | 79 | | 0.10 | 0.10 | % | | | 08/16/12 14:05 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 680-247766/7**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.0 | 0.73 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.3 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Toluene | ND | | 5.0 | 0.84 | ug/Kg | | | 08/25/12 14:07 | 1 |
| Xylenes, Total | ND | | 10 | 1.1 | ug/Kg | | | 08/25/12 14:07 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *65 - 130* | | *08/25/12 14:07* | *1* |
| *Dibromofluoromethane* | *104* | | *65 - 130* | | *08/25/12 14:07* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *65 - 130* | | *08/25/12 14:07* | *1* |

**Lab Sample ID: LCS 680-247766/4**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 50.0 | 47.1 | | ug/Kg | | 94 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 130 | | |
| Toluene | | | 50.0 | 45.2 | | ug/Kg | | 90 | 70 - 130 | | |
| o-Xylene | | | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 100 | 95.9 | | ug/Kg | | 96 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *65 - 130* |
| *Dibromofluoromethane* | *98* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *92* | | *65 - 130* |

**Lab Sample ID: LCSD 680-247766/5**
**Matrix: Solid**
**Analysis Batch: 247766**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 50.0 | 46.8 | | ug/Kg | | 94 | 70 - 130 | 0 | 50 |
| Ethylbenzene | | | 50.0 | 46.6 | | ug/Kg | | 93 | 70 - 130 | 2 | 50 |
| Toluene | | | 50.0 | 44.7 | | ug/Kg | | 89 | 70 - 130 | 1 | 50 |
| o-Xylene | | | 50.0 | 47.1 | | ug/Kg | | 94 | 70 - 130 | 1 | 50 |
| m-Xylene & p-Xylene | | | 100 | 93.6 | | ug/Kg | | 94 | 70 - 130 | 2 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *65 - 130* |
| *Dibromofluoromethane* | *98* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *91* | | *65 - 130* |

**Lab Sample ID: MB 680-247796/7**
**Matrix: Solid**
**Analysis Batch: 247796**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 200 | 29 | ug/Kg | | | 08/25/12 14:30 | 40 |
| Ethylbenzene | ND | | 200 | 52 | ug/Kg | | | 08/25/12 14:30 | 40 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-247796/7**
**Matrix: Solid**
**Analysis Batch: 247796**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 200 | 34 | ug/Kg | | | 08/25/12 14:30 | 40 |
| Xylenes, Total | ND | | 400 | 44 | ug/Kg | | | 08/25/12 14:30 | 40 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *83* | | *65 - 130* | | *08/25/12 14:30* | *40* |
| *Dibromofluoromethane* | *87* | | *65 - 130* | | *08/25/12 14:30* | *40* |
| *Toluene-d8 (Surr)* | *80* | | *65 - 130* | | *08/25/12 14:30* | *40* |

**Lab Sample ID: LCS 680-247796/4**
**Matrix: Solid**
**Analysis Batch: 247796**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 2500 | 2390 | | ug/Kg | | 96 | 70 - 130 | | |
| Ethylbenzene | | | 2500 | 2420 | | ug/Kg | | 97 | 70 - 130 | | |
| Toluene | | | 2500 | 2340 | | ug/Kg | | 94 | 70 - 130 | | |
| o-Xylene | | | 2500 | 2400 | | ug/Kg | | 96 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 5000 | 4850 | | ug/Kg | | 97 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *93* | | *65 - 130* |
| *Dibromofluoromethane* | *100* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *95* | | *65 - 130* |

**Lab Sample ID: LCSD 680-247796/5**
**Matrix: Solid**
**Analysis Batch: 247796**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 2500 | 2240 | | ug/Kg | | 90 | 70 - 130 | 7 | 50 |
| Ethylbenzene | | | 2500 | 2300 | | ug/Kg | | 92 | 70 - 130 | 5 | 50 |
| Toluene | | | 2500 | 2210 | | ug/Kg | | 88 | 70 - 130 | 6 | 50 |
| o-Xylene | | | 2500 | 2310 | | ug/Kg | | 92 | 70 - 130 | 4 | 50 |
| m-Xylene & p-Xylene | | | 5000 | 4640 | | ug/Kg | | 93 | 70 - 130 | 5 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *88* | | *65 - 130* |
| *Dibromofluoromethane* | *96* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *89* | | *65 - 130* |

**Lab Sample ID: MB 680-248028/7**
**Matrix: Solid**
**Analysis Batch: 248028**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 200 | 29 | ug/Kg | | | 08/26/12 23:28 | 40 |
| Ethylbenzene | ND | | 200 | 52 | ug/Kg | | | 08/26/12 23:28 | 40 |
| Toluene | ND | | 200 | 34 | ug/Kg | | | 08/26/12 23:28 | 40 |
| Xylenes, Total | ND | | 400 | 44 | ug/Kg | | | 08/26/12 23:28 | 40 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 680-248028/7**
**Matrix: Solid**
**Analysis Batch: 248028**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *80* | | *65 - 130* | | *08/26/12 23:28* | *40* |
| *Dibromofluoromethane* | *79* | | *65 - 130* | | *08/26/12 23:28* | *40* |
| *Toluene-d8 (Surr)* | *73* | | *65 - 130* | | *08/26/12 23:28* | *40* |

**Lab Sample ID: LCS 680-248028/4**
**Matrix: Solid**
**Analysis Batch: 248028**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 62.5 | 60.8 | | ug/Kg | | 97 | 70 - 130 |
| Ethylbenzene | 62.5 | 58.2 | | ug/Kg | | 93 | 70 - 130 |
| Toluene | 62.5 | 59.6 | | ug/Kg | | 95 | 70 - 130 |
| o-Xylene | 62.5 | 58.5 | | ug/Kg | | 94 | 70 - 130 |
| m-Xylene & p-Xylene | 125 | 118 | | ug/Kg | | 94 | 70 - 130 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene* | *91* | | *65 - 130* |
| *Dibromofluoromethane* | *99* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *97* | | *65 - 130* |

**Lab Sample ID: LCSD 680-248028/5**
**Matrix: Solid**
**Analysis Batch: 248028**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 62.5 | 62.3 | | ug/Kg | | 100 | 70 - 130 | 2 | 50 |
| Ethylbenzene | 62.5 | 59.3 | | ug/Kg | | 95 | 70 - 130 | 2 | 50 |
| Toluene | 62.5 | 61.2 | | ug/Kg | | 98 | 70 - 130 | 3 | 50 |
| o-Xylene | 62.5 | 60.2 | | ug/Kg | | 96 | 70 - 130 | 3 | 50 |
| m-Xylene & p-Xylene | 125 | 121 | | ug/Kg | | 97 | 70 - 130 | 3 | 50 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *65 - 130* |
| *Dibromofluoromethane* | *101* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *100* | | *65 - 130* |

**Lab Sample ID: MB 180-45935/3**
**Matrix: Water**
**Analysis Batch: 45935**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 08/22/12 10:47 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 08/22/12 10:47 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 08/22/12 10:47 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 08/22/12 10:47 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 135* | | *08/22/12 10:47* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-45935/3**
**Matrix: Water**
**Analysis Batch: 45935**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *97* | | *71 - 118* | | *08/22/12 10:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *70 - 118* | | *08/22/12 10:47* | *1* |
| *Dibromofluoromethane (Surr)* | *113* | | *70 - 128* | | *08/22/12 10:47* | *1* |

**Lab Sample ID: LCS 180-45935/6**
**Matrix: Water**
**Analysis Batch: 45935**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 10.4 | | ug/L | | 104 | 80 - 120 |
| Ethylbenzene | 10.0 | 11.1 | | ug/L | | 111 | 72 - 126 |
| Toluene | 10.0 | 10.4 | | ug/L | | 104 | 80 - 123 |
| Xylenes, Total | 30.0 | 32.5 | | ug/L | | 108 | 76 - 128 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *101* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *104* | | *70 - 128* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-247591/3**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/23/12 10:56 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* | | *08/23/12 10:56* | *1* |

**Lab Sample ID: LCS 680-247591/4**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.200 | 0.203 | | mg/L | | 102 | 70 - 148 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 130* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247591/5**
**Matrix: Water**
**Analysis Batch: 247591**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.210 | | mg/L | | 105 | 70 - 148 | 3 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *101* | | *70 - 130* |

**Lab Sample ID: MB 680-247880/25**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 5.0 | 0.38 | mg/Kg | | | 08/27/12 18:07 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* | | *08/27/12 18:07* | *20* |

**Lab Sample ID: MB 680-247880/3**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/27/12 12:36 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *88* | | *70 - 131* | | *08/27/12 12:36* | *1* |

**Lab Sample ID: LCS 680-247880/16**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 27.3 | | mg/Kg | | 68 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *90* | | *70 - 131* |

**Lab Sample ID: LCS 680-247880/4**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.783 | | mg/Kg | | 78 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247880/17**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 26.9 | | mg/Kg | | 67 | 64 - 133 | 1 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *88* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247880/5**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.899 | | mg/Kg | | 90 | 64 - 133 | 14 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *93* | | *70 - 131* |

**Lab Sample ID: MB 680-248161/3**
**Matrix: Water**
**Analysis Batch: 248161**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 08/29/12 11:17 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 130* | | *08/29/12 11:17* | *1* |

**Lab Sample ID: LCS 680-248161/4**
**Matrix: Water**
**Analysis Batch: 248161**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.203 | | mg/L | | 102 | 70 - 148 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 130* |

**Lab Sample ID: LCSD 680-248161/5**
**Matrix: Water**
**Analysis Batch: 248161**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.207 | | mg/L | | 103 | 70 - 148 | 2 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 130* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-247146/17-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 248247** — **Prep Batch: 247146**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 08/20/12 15:02 | 08/29/12 18:21 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *81* | | *62 - 130* | *08/20/12 15:02* | *08/29/12 18:21* | *1* |

**Lab Sample ID: LCS 680-247146/18-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 248247** — **Prep Batch: 247146**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.00 | 0.600 | | mg/L | | 60 | 25 - 145 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *73* | | *62 - 130* |

**Lab Sample ID: MB 680-247452/17-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 248035** — **Prep Batch: 247452**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/22/12 15:58 | 08/28/12 10:22 | 1 |

**Lab Sample ID: LCS 680-247452/18-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 248035** — **Prep Batch: 247452**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.3 | 25.8 | | mg/Kg | | 77 | 19 - 171 |

## Method: 1664A - HEM and SGT-HEM

**Lab Sample ID: MB 180-47319/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 47421** — **Prep Batch: 47319**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 1.60 | J | 5.0 | 1.5 | mg/L | | 09/05/12 10:53 | 09/05/12 10:53 | 1 |

**Lab Sample ID: LCS 180-47319/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 47421** — **Prep Batch: 47319**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 34.9 | | mg/L | | 87 | 78 - 114 |

## Method: 1664A - HEM and SGT-HEM (Continued)

**Lab Sample ID: LCSD 180-47319/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 47421** — **Prep Batch: 47319**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.4 | | mg/L | | 89 | 78 - 114 | 1 | 18 |

**Lab Sample ID: MB 180-47519/3-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 47623** — **Prep Batch: 47519**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 1.90 | J | 5.0 | 1.5 | mg/L | | 09/06/12 14:19 | 09/06/12 14:19 | 1 |

**Lab Sample ID: LCS 180-47519/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 47623** — **Prep Batch: 47519**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 36.2 | | mg/L | | 91 | 78 - 114 |

**Lab Sample ID: LCSD 180-47519/2-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 47623** — **Prep Batch: 47519**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 34.4 | | mg/L | | 86 | 78 - 114 | 5 | 18 |

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 680-248509/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 248511** — **Prep Batch: 248509**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 08/31/12 08:25 | 08/31/12 08:25 | 1 |

**Lab Sample ID: LCS 680-248509/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 248511** — **Prep Batch: 248509**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.0880 | | mg/L | | 89 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.0880 | | mg/L | | 89 | 60 - 140 |

**Lab Sample ID: 180-13486-2 MS** — **Client Sample ID: 50W**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 248511** — **Prep Batch: 248509**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.042 | | 0.197 | 0.243 | | mg/L | | 102 | 60 - 140 |
| TOX Result 2 | 0.044 | | 0.197 | 0.243 | | mg/L | | 101 | 60 - 140 |

## Method: 9020B - Organic Halides, Total (TOX) (Continued)

**Lab Sample ID: 180-13486-2 MSD** — **Client Sample ID: 50W**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 248511** — **Prep Batch: 248509**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.042 | | 0.197 | 0.226 | | mg/L | | 94 | 60 - 140 | 7 | 40 |
| TOX Result 2 | 0.044 | | 0.197 | 0.226 | | mg/L | | 93 | 60 - 140 | 7 | 40 |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-18660/2-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 18664** — **Prep Batch: 18660**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 21.0 | | 10 | 7.0 | mg/Kg | | 09/07/12 12:00 | 09/07/12 13:53 | 1 |

**Lab Sample ID: LCS 490-18660/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 18664** — **Prep Batch: 18660**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 1040 | | mg/Kg | | 100 | 90 - 110 |

**Lab Sample ID: MB 490-18738/2-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 19017** — **Prep Batch: 18738**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.0 | mg/Kg | | 09/10/12 07:00 | 09/10/12 07:30 | 1 |

**Lab Sample ID: LCS 490-18738/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 19017** — **Prep Batch: 18738**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 975 | | mg/Kg | | 94 | 90 - 110 |

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-47436/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 47479** — **Prep Batch: 47436**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 36.7 | J | 170 | 23 | mg/Kg | | 09/06/12 05:39 | 09/06/12 11:18 | 1 |

**Lab Sample ID: LCS 180-47436/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 47479** — **Prep Batch: 47436**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1210 | | mg/Kg | | 91 | 78 - 114 |

## Method: 9071B - HEM and SGT-HEM (Continued)

**Lab Sample ID: LCSD 180-47436/3-A**
**Matrix: Solid**
**Analysis Batch: 47479**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47436**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1200 | | mg/Kg | | 90 | 78 - 114 | 1 | 18 |

**Lab Sample ID: MB 180-47439/1-A**
**Matrix: Solid**
**Analysis Batch: 47506**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47439**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 50.0 | J | 170 | 23 | mg/Kg | | 09/06/12 05:47 | 09/06/12 05:47 | 1 |

**Lab Sample ID: LCS 180-47439/2-A**
**Matrix: Solid**
**Analysis Batch: 47506**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47439**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1140 | | mg/Kg | | 86 | 78 - 114 | | |

**Lab Sample ID: LCSD 180-47439/3-A**
**Matrix: Solid**
**Analysis Batch: 47506**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47439**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1140 | | mg/Kg | | 86 | 78 - 114 | 0 | 18 |

## GC/MS VOA

### Analysis Batch: 45935

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-2 | 50W | Total/NA | Water | 8260B | |
| 180-13486-4 | 49W | Total/NA | Water | 8260B | |
| 180-13486-6 | 49WD | Total/NA | Water | 8260B | |
| 180-13486-8 | 4W | Total/NA | Water | 8260B | |
| LCS 180-45935/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 180-45935/3 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 247766

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | 8260B | |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 8260B | |
| 180-13486-9 | 37 | Total/NA | Solid | 8260B | |
| LCS 680-247766/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 680-247766/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |
| MB 680-247766/7 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 247796

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | 8260B | |
| LCS 680-247796/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 680-247796/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |
| MB 680-247796/7 | Method Blank | Total/NA | Solid | 8260B | |

### Analysis Batch: 248028

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | 8260B | |
| LCS 680-248028/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 680-248028/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |
| MB 680-248028/7 | Method Blank | Total/NA | Solid | 8260B | |

## GC VOA

### Analysis Batch: 247591

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-2 | 50W | Total/NA | Water | 8015B | |
| 180-13486-4 | 49W | Total/NA | Water | 8015B | |
| 180-13486-6 | 49WD | Total/NA | Water | 8015B | |
| LCS 680-247591/4 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-247591/5 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-247591/3 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 247880

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | 8015B | |
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | 8015B | |
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | 8015B | |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 8015B | |
| 180-13486-9 | 37 | Total/NA | Solid | 8015B | |
| LCS 680-247880/16 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCS 680-247880/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247880/17 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| LCSD 680-247880/5 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |

## GC VOA (Continued)

### Analysis Batch: 247880 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 680-247880/25 | Method Blank | Total/NA | Solid | 8015B | |
| MB 680-247880/3 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 248161

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-8 | 4W | Total/NA | Water | 8015B | |
| LCS 680-248161/4 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-248161/5 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-248161/3 | Method Blank | Total/NA | Water | 8015B | |

## GC Semi VOA

### Prep Batch: 247146

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-2 | 50W | Total/NA | Water | 3520C | |
| 180-13486-4 | 49W | Total/NA | Water | 3520C | |
| 180-13486-6 | 49WD | Total/NA | Water | 3520C | |
| 180-13486-8 | 4W | Total/NA | Water | 3520C | |
| LCS 680-247146/18-A | Lab Control Sample | Total/NA | Water | 3520C | |
| MB 680-247146/17-A | Method Blank | Total/NA | Water | 3520C | |

### Prep Batch: 247452

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | 3546 | |
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | 3546 | |
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | 3546 | |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 3546 | |
| 180-13486-9 | 37 | Total/NA | Solid | 3546 | |
| LCS 680-247452/18-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-247452/17-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 248035

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-247452/18-A | Lab Control Sample | Total/NA | Solid | 8015B | 247452 |
| MB 680-247452/17-A | Method Blank | Total/NA | Solid | 8015B | 247452 |

### Analysis Batch: 248247

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-247146/18-A | Lab Control Sample | Total/NA | Water | 8015B | 247146 |
| MB 680-247146/17-A | Method Blank | Total/NA | Water | 8015B | 247146 |

### Analysis Batch: 248255

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | 8015B | 247452 |
| 180-13486-2 | 50W | Total/NA | Water | 8015B | 247146 |
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | 8015B | 247452 |
| 180-13486-4 | 49W | Total/NA | Water | 8015B | 247146 |
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | 8015B | 247452 |
| 180-13486-6 | 49WD | Total/NA | Water | 8015B | 247146 |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 8015B | 247452 |
| 180-13486-8 | 4W | Total/NA | Water | 8015B | 247146 |

## GC Semi VOA (Continued)

### Analysis Batch: 248568

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-9 | 37 | Total/NA | Solid | 8015B | 247452 |

## General Chemistry

### Prep Batch: 18660

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | 9023 | |
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | 9023 | |
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | 9023 | |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 9023 | |
| LCS 490-18660/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-18660/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 18664

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | 9023 | 18660 |
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | 9023 | 18660 |
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | 9023 | 18660 |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 9023 | 18660 |
| LCS 490-18660/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 18660 |
| MB 490-18660/2-A | Method Blank | Total/NA | Solid | 9023 | 18660 |

### Prep Batch: 18738

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-9 | 37 | Total/NA | Solid | 9023 | |
| LCS 490-18738/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-18738/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 19017

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-9 | 37 | Total/NA | Solid | 9023 | 18738 |
| LCS 490-18738/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 18738 |
| MB 490-18738/2-A | Method Blank | Total/NA | Solid | 9023 | 18738 |

### Analysis Batch: 45261

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | Moisture | |
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | Moisture | |
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | Moisture | |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | Moisture | |
| 180-13486-9 | 37 | Total/NA | Solid | Moisture | |

### Prep Batch: 47319

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-8 | 4W | Total/NA | Water | 1664A | |
| LCS 180-47319/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-47319/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-47319/1-A | Method Blank | Total/NA | Water | 1664A | |

### Analysis Batch: 47421

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-8 | 4W | Total/NA | Water | 1664A | 47319 |

## General Chemistry (Continued)

### Analysis Batch: 47421 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 180-47319/2-A | Lab Control Sample | Total/NA | Water | 1664A | 47319 |
| LCSD 180-47319/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 47319 |
| MB 180-47319/1-A | Method Blank | Total/NA | Water | 1664A | 47319 |

### Prep Batch: 47436

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | 9071B | |
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | 9071B | |
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | 9071B | |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 9071B | |
| LCS 180-47436/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-47436/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-47436/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Prep Batch: 47439

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-9 | 37 | Total/NA | Solid | 9071B | |
| LCS 180-47439/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-47439/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-47439/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Analysis Batch: 47479

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-1 | 50W@9-11' | Total/NA | Solid | 9071B | 47436 |
| 180-13486-3 | 49W@8-10' | Total/NA | Solid | 9071B | 47436 |
| 180-13486-5 | 49WD@8-10' | Total/NA | Solid | 9071B | 47436 |
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 9071B | 47436 |
| LCS 180-47436/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 47436 |
| LCSD 180-47436/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 47436 |
| MB 180-47436/1-A | Method Blank | Total/NA | Solid | 9071B | 47436 |

### Analysis Batch: 47506

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-9 | 37 | Total/NA | Solid | 9071B | 47439 |
| LCS 180-47439/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 47439 |
| LCSD 180-47439/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 47439 |
| MB 180-47439/1-A | Method Blank | Total/NA | Solid | 9071B | 47439 |

### Prep Batch: 47519

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-2 | 50W | Total/NA | Water | 1664A | |
| 180-13486-4 | 49W | Total/NA | Water | 1664A | |
| 180-13486-6 | 49WD | Total/NA | Water | 1664A | |
| LCS 180-47519/1-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-47519/2-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-47519/3-A | Method Blank | Total/NA | Water | 1664A | |

### Analysis Batch: 47623

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-2 | 50W | Total/NA | Water | 1664A | 47519 |
| 180-13486-4 | 49W | Total/NA | Water | 1664A | 47519 |
| 180-13486-6 | 49WD | Total/NA | Water | 1664A | 47519 |

## General Chemistry (Continued)

### Analysis Batch: 47623 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 180-47519/1-A | Lab Control Sample | Total/NA | Water | 1664A | 47519 |
| LCSD 180-47519/2-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 47519 |
| MB 180-47519/3-A | Method Blank | Total/NA | Water | 1664A | 47519 |

### Prep Batch: 248509

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-2 | 50W | Total/NA | Water | Carbon Trap | |
| 180-13486-2 MS | 50W | Total/NA | Water | Carbon Trap | |
| 180-13486-2 MSD | 50W | Total/NA | Water | Carbon Trap | |
| 180-13486-4 | 49W | Total/NA | Water | Carbon Trap | |
| 180-13486-6 | 49WD | Total/NA | Water | Carbon Trap | |
| 180-13486-8 | 4W | Total/NA | Water | Carbon Trap | |
| LCS 680-248509/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-248509/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 248511

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-2 | 50W | Total/NA | Water | 9020B | 248509 |
| 180-13486-2 MS | 50W | Total/NA | Water | 9020B | 248509 |
| 180-13486-2 MSD | 50W | Total/NA | Water | 9020B | 248509 |
| 180-13486-4 | 49W | Total/NA | Water | 9020B | 248509 |
| 180-13486-6 | 49WD | Total/NA | Water | 9020B | 248509 |
| 180-13486-8 | 4W | Total/NA | Water | 9020B | 248509 |
| LCS 680-248509/2-A | Lab Control Sample | Total/NA | Water | 9020B | 248509 |
| MB 680-248509/1-A | Method Blank | Total/NA | Water | 9020B | 248509 |

180-13486

# Chain of Custody Record

2.3, 1.9 #2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | 1 of 1 COCs |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) | | For lab use only |
| Phone: (804) 442-3330 | | TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No: |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite=C/Grab=G | Analyses: Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | PCBs | Metals | TCLP (FULL) | | | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50W@ 9-11' | 8/14 | 1:45 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| 50W | 8/14 | 2:00 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | | | |
| 49 W@ 8-10' | 8/14 | 3:00 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| 49 W | 8/14 | 3:30 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | | | |
| 49 WD@ 8-10' | 8/14 | 3:00 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| 49 WD | 8/14 | 3:30 | | X | | [illegible] | | X | | X | | | | | | | X | X | | | X | | | | | | |
| Trip Blank | | | | X | | | | | | X | | | | | | | | | X | | | | | | | | |
| 4W@2-4' | 8/15 | 8:45 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| 4W | 8/15 | 9:15 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | | | |
| 37 | 8/15 | 11:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| [signature] | EEE | 8/15/12 1215 | [signature] | TA | 8/15/12 1215 |
| [signature] | TA | 8/15/12 1700 | [signature] | TA Dixie | 8-16-12 9:5 |
| | | | Received in Laboratory by: | | |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13486-1

**Login Number: 13486**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13486-1

**Login Number: 13486**
**List Number: 1**
**Creator: Gambill, Shane**

**List Source: TestAmerica Nashville**
**List Creation: 08/31/12 08:45 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | N/A | |
| 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13486-1

**Login Number: 13486**
**List Number: 1**
**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**
**List Creation: 08/17/12 11:23 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13486-1

**Login Number: 13486**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13486-2
Client Project/Site: Midtown Tunnel (MTT-MLK)

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

Veronica Bortot

*Authorized for release by:*
*10/8/2012 5:09:16 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 4
Certification Summary . . . . . 5
Sample Summary . . . . . 6
Method Summary . . . . . 7
Client Sample Results . . . . . 8
QC Sample Results . . . . . 9
QC Association . . . . . 10
Chain of Custody . . . . . 11
Receipt Checklists . . . . . 12

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-2

## Job ID: 180-13486-2

**Laboratory: TestAmerica Pittsburgh**

**Narrative**

**Job Narrative**
**180-13486-2**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/16/2012 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.9º C and 2.3º C.

**GC Semi VOA**
No analytical or quality issues were noted.

**Organic Prep**
Method(s) 3541: The following sample(s) was prepared and/or analyzed outside the method defined holding time because the request for the test was made after the holding time for the sample : 180-13486-7.

No other analytical or quality issues were noted.

# Definitions/Glossary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-2

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| H | Sample was prepped or analyzed beyond the specified holding time |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-2

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13486-7 | 4W@2-4' | Solid | 08/15/12 08:45 | 08/16/12 09:15 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-2

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-2

**Client Sample ID: 4W@2-4'**
**Date Collected: 08/15/12 08:45**
**Date Received: 08/16/12 09:15**

**Lab Sample ID: 180-13486-7**
**Matrix: Solid**
**Percent Solids: 81.2**

**Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | H | 20 | 3.0 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:55 | 1 |
| PCB-1221 | ND | H | 20 | 3.9 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:55 | 1 |
| PCB-1232 | ND | H | 20 | 3.5 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:55 | 1 |
| PCB-1242 | ND | H | 20 | 3.3 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:55 | 1 |
| PCB-1248 | ND | H | 20 | 1.9 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:55 | 1 |
| PCB-1254 | ND | H | 20 | 2.9 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:55 | 1 |
| PCB-1260 | ND | H | 20 | 2.9 | ug/Kg | ☼ | 10/03/12 03:00 | 10/04/12 16:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *86* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 16:55* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *88* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 16:55* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-50560/1-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 10/03/12 03:00 | 10/04/12 17:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *98* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 17:23* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *98* | | *35 - 140* | *10/03/12 03:00* | *10/04/12 17:23* | *1* |

**Lab Sample ID: LCS 180-50560/2-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1200 | | ug/Kg | | 90 | 55 - 130 | | |
| PCB-1260 | | | 1330 | 1280 | | ug/Kg | | 96 | 54 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *90* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *109* | | *35 - 140* |

**Lab Sample ID: LCSD 180-50560/3-A**
**Matrix: Solid**
**Analysis Batch: 50942**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 50560**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1200 | | ug/Kg | | 90 | 55 - 130 | 0 | 35 |
| PCB-1260 | | | 1330 | 1220 | | ug/Kg | | 91 | 54 - 130 | 5 | 29 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *93* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *101* | | *35 - 140* |

# QC Association Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13486-2

## GC Semi VOA

### Prep Batch: 50560

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 3541 | |
| LCS 180-50560/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 180-50560/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |
| MB 180-50560/1-A | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 50942

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13486-7 | 4W@2-4' | Total/NA | Solid | 8082 | 50560 |
| LCS 180-50560/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 50560 |
| LCSD 180-50560/3-A | Lab Control Sample Dup | Total/NA | Solid | 8082 | 50560 |
| MB 180-50560/1-A | Method Blank | Total/NA | Solid | 8082 | 50560 |

1 2 3 4 5 6 7 8 9 10 11 12

180-13486

# Chain of Custody Record

2.3, 1.9 #2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | 1 of 1 COCs |
| City/State/Zip: Mechanicsville VA 23116 | Email: | Analysis Turnaround Time (in BUS days) TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No. |
| Phone: (804) 442-3330 | | | | |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

Analyses

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite=C/Grab=G | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EOX | PCBs | Metals | TCLP (FULL) | | | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50W@ 9-11' | 8/14 | 1:45 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| 50W | 8/14 | 2:00 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | | | |
| 49 W@ 8-10' | 8/14 | 3:00 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| 49 W | 8/14 | 3:30 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | | | |
| 49 WD@ 8-10' | 8/14 | 3:00 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| 49 WD | 8/14 | 3:30 | | X | | [illegible] | | X | | X | | | | | | | X | X | | | X | | | | | | |
| Trip Blank | | | | X | | | | | | X | | | | | | | | | X | | | | | | | | |
| 4W@2-4' | 8/15 | 8:45 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| 4W | 8/15 | 9:15 | | X | | | | X | | X | | | | | | | X | X | | | X | | | | | | |
| 37 | 8/15 | 11:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| [signature] | EEE | 8/15/12 1215 | [signature] | TA | 8/15/12 1215 |
| [signature] | TA | 8/15/12 1700 | [signature] | TA Dixx | 8-16-12 9:5 |
| | | | Received in Laboratory by: | | |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13486-2

**Login Number: 13486**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: O'Donnell, Brandon R**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13550-1
Client Project/Site: Midtown Tunnel (MTT-MLK)

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

*Authorized for release by:*
*9/12/2012 4:14:42 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 5
Certification Summary . . . . . 6
Sample Summary . . . . . 9
Method Summary . . . . . 10
Client Sample Results . . . . . 11
QC Sample Results . . . . . 15
QC Association . . . . . 19
Chain of Custody . . . . . 21
Receipt Checklists . . . . . 22

## Job ID: 180-13550-1

**Laboratory: TestAmerica Pittsburgh**

**Narrative**

### CASE NARRATIVE

### Client: EEE Consulting, Inc.

### Project: Midtown Tunnel (MTT-MLK)

### Report Number: 180-13550-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**Receipt**
The samples were received on 8/17/2012 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9º C.

Except:
Trip Blank was listed on the COC but not in the cooler.

**VOLATILES**
Samples 81@2-4' (180-13550-1), 57@2-4' (180-13550-2), 61@0-1' (180-13550-3), 62@4-6' (180-13550-4) and 65@4-6' (180-13550-5) were analyzed for Volatiles in accordance with EPA Method SW8260B. The samples were analyzed on 08/29/2012.

No difficulties were encountered during the VOC analysis.

All quality control parameters were within the acceptance limits

No analytical or quality issues were noted.

**GASOLINE RANGE ORGANICS 8015**
Samples 81@2-4' (180-13550-1), 57@2-4' (180-13550-2), 61@0-1' (180-13550-3), 62@4-6' (180-13550-4) and 65@4-6' (180-13550-5) were analyzed for 8015 in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 08/27/2012.

No difficulties were encountered during the GRO analysis.

All quality control parameters were within the acceptance limits.

**DIESEL RANGE ORGANICS 8015**
Samples 81@2-4' (180-13550-1), 57@2-4' (180-13550-2), 61@0-1' (180-13550-3), 62@4-6' (180-13550-4) and 65@4-6' (180-13550-5) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 08/22/2012 and analyzed on 08/30/2012 and 09/01/2012.

No difficulties were encountered during the DRO analysis.

## Job ID: 180-13550-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

All quality control parameters were within the acceptance limits.

**EXTRACTABLE ORGANIC HALIDES**

Samples 81@2-4' (180-13550-1), 57@2-4' (180-13550-2), 61@0-1' (180-13550-3), 62@4-6' (180-13550-4) and 65@4-6' (180-13550-5) were analyzed for extractable organic halides in accordance with EPA SW-846 Method 9023. The samples were prepared and analyzed on 09/10/2012.

No difficulties were encountered during the EOX analysis.

**OIL AND GREASE**

Samples 81@2-4' (180-13550-1), 57@2-4' (180-13550-2), 61@0-1' (180-13550-3), 62@4-6' (180-13550-4) and 65@4-6' (180-13550-5) were analyzed for oil and grease in accordance with EPA SW-846 Method 9017B. The samples were prepared and analyzed on 09/06/2012.

HEM was detected in method blank MB 180-47439/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No other difficulties were encountered during the oil and grease analysis.

All other quality control parameters were within the acceptance limits.

**PERCENT SOLIDS**

Samples 81@2-4' (180-13550-1), 57@2-4' (180-13550-2), 61@0-1' (180-13550-3), 62@4-6' (180-13550-4) and 65@4-6' (180-13550-5) were analyzed for percent solids in accordance with EPA methodology. The samples were analyzed on 08/20/2012.

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

**GC VOA**

Method(s) 8015B: Manual integration was performed on the following sample(s): 180-13550-1.

No other analytical or quality issues were noted.

**GC Semi VOA**

Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: 180-13550-4. 3520C 8015DRO

Method(s) 8015B:

No other analytical or quality issues were noted.

**General Chemistry**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

**VOA Prep**

No analytical or quality issues were noted.

# Definitions/Glossary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| 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

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-12 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-13 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oklahoma | State Program | 6 | 9412 | 08-31-13 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Solid | 08/15/12 12:30 | 08/17/12 09:10 |
| 180-13550-2 | 57@2-4' | Solid | 08/15/12 13:30 | 08/17/12 09:10 |
| 180-13550-3 | 61@0-1' | Solid | 08/15/12 14:15 | 08/17/12 09:10 |
| 180-13550-4 | 62@4-6' | Solid | 08/15/12 14:40 | 08/17/12 09:10 |
| 180-13550-5 | 65@4-6' | Solid | 08/15/12 15:30 | 08/17/12 09:10 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL SAV |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Client Sample ID: 81@2-4'

**Date Collected: 08/15/12 12:30**
**Date Received: 08/17/12 09:10**

## Lab Sample ID: 180-13550-1

**Matrix: Solid**
**Percent Solids: 69.5**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.9 | 1.0 | ug/Kg | ☼ | | 08/29/12 14:38 | 1 |
| Ethylbenzene | ND | | 6.9 | 1.8 | ug/Kg | ☼ | | 08/29/12 14:38 | 1 |
| Toluene | ND | | 6.9 | 1.2 | ug/Kg | ☼ | | 08/29/12 14:38 | 1 |
| Xylenes, Total | ND | | 14 | 1.5 | ug/Kg | ☼ | | 08/29/12 14:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *98* | | *65 - 130* | | *08/29/12 14:38* | *1* |
| *Dibromofluoromethane* | *106* | | *65 - 130* | | *08/29/12 14:38* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *65 - 130* | | *08/29/12 14:38* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.30** | **J** | 0.36 | 0.027 | mg/Kg | ☼ | | 08/27/12 20:26 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *107* | | *70 - 131* | | *08/27/12 20:26* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **8.3** | | 4.7 | 3.0 | mg/Kg | ☼ | 08/22/12 15:58 | 08/30/12 00:54 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 14 | 10 | mg/Kg | ☼ | 09/10/12 07:00 | 09/10/12 07:30 | 1 |
| **HEM** | **100** | **J B** | 240 | 33 | mg/Kg | ☼ | 09/06/12 05:47 | 09/06/12 05:47 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **31** | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |
| **Percent Solids** | **69** | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |

## Client Sample ID: 57@2-4'

**Date Collected: 08/15/12 13:30**
**Date Received: 08/17/12 09:10**

## Lab Sample ID: 180-13550-2

**Matrix: Solid**
**Percent Solids: 85.3**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.4 | 0.78 | ug/Kg | ☼ | | 08/29/12 15:02 | 1 |
| Ethylbenzene | ND | | 5.4 | 1.4 | ug/Kg | ☼ | | 08/29/12 15:02 | 1 |
| Toluene | ND | | 5.4 | 0.90 | ug/Kg | ☼ | | 08/29/12 15:02 | 1 |
| Xylenes, Total | ND | | 11 | 1.2 | ug/Kg | ☼ | | 08/29/12 15:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *65 - 130* | | *08/29/12 15:02* | *1* |
| *Dibromofluoromethane* | *108* | | *65 - 130* | | *08/29/12 15:02* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *65 - 130* | | *08/29/12 15:02* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 08/27/12 20:45 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *105* | | *70 - 131* | | *08/27/12 20:45* | *1* |

## Client Sample ID: 57@2-4'

**Lab Sample ID: 180-13550-2**
**Date Collected: 08/15/12 13:30**
**Matrix: Solid**
**Date Received: 08/17/12 09:10**
**Percent Solids: 85.3**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 2.7 | J | 3.8 | 2.4 | mg/Kg | ☼ | 08/22/12 15:58 | 08/30/12 01:08 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.2 | mg/Kg | ☼ | 09/10/12 07:00 | 09/10/12 07:30 | 1 |
| HEM | 50 | J B | 190 | 27 | mg/Kg | ☼ | 09/06/12 05:47 | 09/06/12 05:47 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |
| Percent Solids | 85 | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |

## Client Sample ID: 61@0-1'

**Lab Sample ID: 180-13550-3**
**Date Collected: 08/15/12 14:15**
**Matrix: Solid**
**Date Received: 08/17/12 09:10**
**Percent Solids: 91.3**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.4 | 0.79 | ug/Kg | ☼ | | 08/29/12 15:25 | 1 |
| Ethylbenzene | ND | | 5.4 | 1.4 | ug/Kg | ☼ | | 08/29/12 15:25 | 1 |
| Toluene | ND | | 5.4 | 0.91 | ug/Kg | ☼ | | 08/29/12 15:25 | 1 |
| Xylenes, Total | ND | | 11 | 1.2 | ug/Kg | ☼ | | 08/29/12 15:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *65 - 130* | | *08/29/12 15:25* | *1* |
| *Dibromofluoromethane* | *109* | | *65 - 130* | | *08/29/12 15:25* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *65 - 130* | | *08/29/12 15:25* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.27 | 0.021 | mg/Kg | ☼ | | 08/27/12 21:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *115* | | *70 - 131* | | *08/27/12 21:04* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 10 | | 3.6 | 2.3 | mg/Kg | ☼ | 08/22/12 15:58 | 09/01/12 16:41 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.7 | mg/Kg | ☼ | 09/10/12 07:00 | 09/10/12 07:30 | 1 |
| HEM | 73 | J B | 180 | 25 | mg/Kg | ☼ | 09/06/12 05:47 | 09/06/12 05:47 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 8.7 | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |
| Percent Solids | 91 | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |

## Client Sample ID: 62@4-6'

**Lab Sample ID: 180-13550-4**
**Date Collected: 08/15/12 14:40**
**Matrix: Solid**
**Date Received: 08/17/12 09:10**
**Percent Solids: 84.7**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.5 | 0.80 | ug/Kg | ☼ | | 08/29/12 15:48 | 1 |

## Client Sample ID: 62@4-6'

**Date Collected: 08/15/12 14:40**
**Date Received: 08/17/12 09:10**

## Lab Sample ID: 180-13550-4

**Matrix: Solid**
**Percent Solids: 84.7**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 5.5 | 1.4 | ug/Kg | ☼ | | 08/29/12 15:48 | 1 |
| Toluene | ND | | 5.5 | 0.92 | ug/Kg | ☼ | | 08/29/12 15:48 | 1 |
| Xylenes, Total | ND | | 11 | 1.2 | ug/Kg | ☼ | | 08/29/12 15:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *65 - 130* | | *08/29/12 15:48* | *1* |
| *Dibromofluoromethane* | *109* | | *65 - 130* | | *08/29/12 15:48* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *65 - 130* | | *08/29/12 15:48* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.30 | 0.022 | mg/Kg | ☼ | | 08/27/12 21:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *94* | | *70 - 131* | | *08/27/12 21:24* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.9 | 2.5 | mg/Kg | ☼ | 08/22/12 15:58 | 08/30/12 01:22 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.3 | mg/Kg | ☼ | 09/10/12 07:00 | 09/10/12 07:30 | 1 |
| **HEM** | **63** | **J B** | 200 | 27 | mg/Kg | ☼ | 09/06/12 05:47 | 09/06/12 05:47 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **15** | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |
| **Percent Solids** | **85** | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |

## Client Sample ID: 65@4-6'

**Date Collected: 08/15/12 15:30**
**Date Received: 08/17/12 09:10**

## Lab Sample ID: 180-13550-5

**Matrix: Solid**
**Percent Solids: 77.3**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.1 | 0.89 | ug/Kg | ☼ | | 08/29/12 16:11 | 1 |
| Ethylbenzene | ND | | 6.1 | 1.6 | ug/Kg | ☼ | | 08/29/12 16:11 | 1 |
| Toluene | ND | | 6.1 | 1.0 | ug/Kg | ☼ | | 08/29/12 16:11 | 1 |
| Xylenes, Total | ND | | 12 | 1.3 | ug/Kg | ☼ | | 08/29/12 16:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *100* | | *65 - 130* | | *08/29/12 16:11* | *1* |
| *Dibromofluoromethane* | *106* | | *65 - 130* | | *08/29/12 16:11* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *65 - 130* | | *08/29/12 16:11* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.32 | 0.025 | mg/Kg | ☼ | | 08/27/12 21:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *97* | | *70 - 131* | | *08/27/12 21:43* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

**Client Sample ID: 65@4-6'**
**Date Collected: 08/15/12 15:30**
**Date Received: 08/17/12 09:10**

**Lab Sample ID: 180-13550-5**
**Matrix: Solid**
**Percent Solids: 77.3**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.7 | J | 4.2 | 2.7 | mg/Kg | ☼ | 08/22/12 15:58 | 08/30/12 01:36 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 13 | 9.1 | mg/Kg | ☼ | 09/10/12 07:00 | 09/10/12 07:30 | 1 |
| HEM | 47 | J B | 210 | 30 | mg/Kg | ☼ | 09/06/12 05:47 | 09/06/12 05:47 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 23 | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |
| Percent Solids | 77 | | 0.10 | 0.10 | % | | | 08/20/12 14:19 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 680-248170/6**
**Matrix: Solid**
**Analysis Batch: 248170**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.0 | 0.73 | ug/Kg | | | 08/29/12 11:56 | 1 |
| Ethylbenzene | ND | | 5.0 | 1.3 | ug/Kg | | | 08/29/12 11:56 | 1 |
| Toluene | ND | | 5.0 | 0.84 | ug/Kg | | | 08/29/12 11:56 | 1 |
| Xylenes, Total | ND | | 10 | 1.1 | ug/Kg | | | 08/29/12 11:56 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *101* | | *65 - 130* | | *08/29/12 11:56* | *1* |
| *Dibromofluoromethane* | *109* | | *65 - 130* | | *08/29/12 11:56* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *65 - 130* | | *08/29/12 11:56* | *1* |

**Lab Sample ID: LCS 680-248170/4**
**Matrix: Solid**
**Analysis Batch: 248170**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 50.0 | 48.1 | | ug/Kg | | 96 | 70 - 130 | | |
| Ethylbenzene | | | 50.0 | 48.9 | | ug/Kg | | 98 | 70 - 130 | | |
| Toluene | | | 50.0 | 48.2 | | ug/Kg | | 96 | 70 - 130 | | |
| o-Xylene | | | 50.0 | 49.9 | | ug/Kg | | 100 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 100 | 99.8 | | ug/Kg | | 100 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *65 - 130* |
| *Dibromofluoromethane* | *103* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *98* | | *65 - 130* |

**Lab Sample ID: LCSD 680-248170/5**
**Matrix: Solid**
**Analysis Batch: 248170**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 50.0 | 46.4 | | ug/Kg | | 93 | 70 - 130 | 4 | 50 |
| Ethylbenzene | | | 50.0 | 46.8 | | ug/Kg | | 94 | 70 - 130 | 4 | 50 |
| Toluene | | | 50.0 | 46.3 | | ug/Kg | | 93 | 70 - 130 | 4 | 50 |
| o-Xylene | | | 50.0 | 47.9 | | ug/Kg | | 96 | 70 - 130 | 4 | 50 |
| m-Xylene & p-Xylene | | | 100 | 96.0 | | ug/Kg | | 96 | 70 - 130 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *95* | | *65 - 130* |
| *Dibromofluoromethane* | *102* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *94* | | *65 - 130* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-247880/25**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 5.0 | 0.38 | mg/Kg | | | 08/27/12 18:07 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* | | *08/27/12 18:07* | *20* |

**Lab Sample ID: MB 680-247880/3**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 08/27/12 12:36 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *88* | | *70 - 131* | | *08/27/12 12:36* | *1* |

**Lab Sample ID: LCS 680-247880/16**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 27.3 | | mg/Kg | | 68 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *90* | | *70 - 131* |

**Lab Sample ID: LCS 680-247880/4**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.783 | | mg/Kg | | 78 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *91* | | *70 - 131* |

**Lab Sample ID: LCSD 680-247880/17**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 26.9 | | mg/Kg | | 67 | 64 - 133 | 1 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *88* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-247880/5**
**Matrix: Solid**
**Analysis Batch: 247880**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.899 | | mg/Kg | | 90 | 64 - 133 | 14 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *93* | | *70 - 131* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-247452/17-A**
**Matrix: Solid**
**Analysis Batch: 248035**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 247452**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 08/22/12 15:58 | 08/28/12 10:22 | 1 |

**Lab Sample ID: LCS 680-247452/18-A**
**Matrix: Solid**
**Analysis Batch: 248035**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 247452**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 33.3 | 25.8 | | mg/Kg | | 77 | 19 - 171 | | |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-18738/2-A**
**Matrix: Solid**
**Analysis Batch: 19017**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 18738**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.0 | mg/Kg | | 09/10/12 07:00 | 09/10/12 07:30 | 1 |

**Lab Sample ID: LCS 490-18738/1-A**
**Matrix: Solid**
**Analysis Batch: 19017**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 18738**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | | | 1040 | 975 | | mg/Kg | | 94 | 90 - 110 | | |

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-47439/1-A**
**Matrix: Solid**
**Analysis Batch: 47506**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47439**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 50.0 | J | 170 | 23 | mg/Kg | | 09/06/12 05:47 | 09/06/12 05:47 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

## Method: 9071B - HEM and SGT-HEM (Continued)

**Lab Sample ID: LCS 180-47439/2-A**
**Matrix: Solid**
**Analysis Batch: 47506**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47439**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1140 | | mg/Kg | | 86 | 78 - 114 |

**Lab Sample ID: LCSD 180-47439/3-A**
**Matrix: Solid**
**Analysis Batch: 47506**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47439**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1140 | | mg/Kg | | 86 | 78 - 114 | 0 | 18 |

# QC Association Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13550-1

## GC/MS VOA

### Analysis Batch: 248170

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | 8260B | |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | 8260B | |
| 180-13550-3 | 61@0-1' | Total/NA | Solid | 8260B | |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | 8260B | |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | 8260B | |
| LCS 680-248170/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 680-248170/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |
| MB 680-248170/6 | Method Blank | Total/NA | Solid | 8260B | |

## GC VOA

### Analysis Batch: 247880

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | 8015B | |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | 8015B | |
| 180-13550-3 | 61@0-1' | Total/NA | Solid | 8015B | |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | 8015B | |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | 8015B | |
| LCS 680-247880/16 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCS 680-247880/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-247880/17 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| LCSD 680-247880/5 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-247880/25 | Method Blank | Total/NA | Solid | 8015B | |
| MB 680-247880/3 | Method Blank | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 247452

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | 3546 | |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | 3546 | |
| 180-13550-3 | 61@0-1' | Total/NA | Solid | 3546 | |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | 3546 | |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | 3546 | |
| LCS 680-247452/18-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-247452/17-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 248035

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-247452/18-A | Lab Control Sample | Total/NA | Solid | 8015B | 247452 |
| MB 680-247452/17-A | Method Blank | Total/NA | Solid | 8015B | 247452 |

### Analysis Batch: 248255

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | 8015B | 247452 |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | 8015B | 247452 |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | 8015B | 247452 |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | 8015B | 247452 |

### Analysis Batch: 248568

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-3 | 61@0-1' | Total/NA | Solid | 8015B | 247452 |

## General Chemistry

### Prep Batch: 18738

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | 9023 | |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | 9023 | |
| 180-13550-3 | 61@0-1' | Total/NA | Solid | 9023 | |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | 9023 | |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | 9023 | |
| LCS 490-18738/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-18738/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 19017

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | 9023 | 18738 |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | 9023 | 18738 |
| 180-13550-3 | 61@0-1' | Total/NA | Solid | 9023 | 18738 |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | 9023 | 18738 |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | 9023 | 18738 |
| LCS 490-18738/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 18738 |
| MB 490-18738/2-A | Method Blank | Total/NA | Solid | 9023 | 18738 |

### Analysis Batch: 45616

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | Moisture | |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | Moisture | |
| 180-13550-3 | 61@0-1' | Total/NA | Solid | Moisture | |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | Moisture | |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | Moisture | |

### Prep Batch: 47439

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | 9071B | |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | 9071B | |
| 180-13550-3 | 61@0-1' | Total/NA | Solid | 9071B | |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | 9071B | |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | 9071B | |
| LCS 180-47439/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-47439/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-47439/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Analysis Batch: 47506

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13550-1 | 81@2-4' | Total/NA | Solid | 9071B | 47439 |
| 180-13550-2 | 57@2-4' | Total/NA | Solid | 9071B | 47439 |
| 180-13550-3 | 61@0-1' | Total/NA | Solid | 9071B | 47439 |
| 180-13550-4 | 62@4-6' | Total/NA | Solid | 9071B | 47439 |
| 180-13550-5 | 65@4-6' | Total/NA | Solid | 9071B | 47439 |
| LCS 180-47439/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 47439 |
| LCSD 180-47439/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 47439 |
| MB 180-47439/1-A | Method Blank | Total/NA | Solid | 9071B | 47439 |

13550 P GH #5 48

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: | COC No: |
| Address: 8525 Bell Creek Rd | Telephone: | Telephone: (804) 513 8080 | Telephone: | 1 of 1 COCs |
| City/State/Zip: Mechanicsville, VA 23116 | Email: | Analysis Turnaround Time (In BUS days) | Analyses | For lab use only |
| Phone: (804) 442-3330 | | TAT if different from below: ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab to Kings ☐ Lab sampling ☐ |
| Project Name: 12-074 MLK | Method of Shipment/Carrier: | | | Job SDG No. |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO# 12-074 | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C / Grab G | Oil & Grease | DRO & GRO | VOCs | SVOCs | BTEX & EDX | PCBs | Metals | TCLP (full) | | | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B1@ 2-4' | 8/15 | 12:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| S7@ 2-4' | 8/15 | 1:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| G1@ 0-1' | 8/15 | 2:15 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| G2@ 4-6' | 8/15 | 2:40 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| G5@ 4-6 | 8/15 | 3:30 | | | | X | | | | | | | | | | | X | X | | | X | | | | | | |
| Trip Blank | 8/15 | | | X | | | | | | X | | | | | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| | | | | | |
|---|---|---|---|---|---|
| Relinquished by: Ruth Leeger | Company: EEE | Date/Time: 8/16/12 11:35 | Received by: Steve Gunn | Company: TA | Date/Time: 8/16/12 1135 |
| Relinquished by: Steve Gunn | Company: TA | Date/Time: 8/16/12 1700 | Received by: Debbie Watson | Company: TA PITT | Date/Time: 8/17/12 9:10 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

9/12/2012

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13550-1

**Login Number: 13550**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: Watson, Debbie**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | 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. | N/A | |
| Multiphasic samples are not present. | N/A | |
| Samples do not require splitting or compositing. | N/A | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13550-1

**Login Number: 13550**
**List Number: 1**
**Creator: Gambill, Shane**

**List Source: TestAmerica Nashville**
**List Creation: 08/31/12 08:40 AM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | N/A | |
| 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13550-1

**Login Number: 13550**
**List Number: 1**
**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**
**List Creation: 08/21/12 12:08 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| 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 | |
| Is the Field Sampler's name present on COC? | 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 | |
| Sample Preservation Verified. | N/A | |
| 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13966-1
Client Project/Site: Midtown Tunnel (MTT-MLK)
Revision: 1

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

Veronica Bortot

*Authorized for release by:*
*9/27/2012 2:36:17 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 5
Certification Summary . . . . . 6
Sample Summary . . . . . 9
Method Summary . . . . . 10
Client Sample Results . . . . . 11
QC Sample Results . . . . . 56
QC Association . . . . . 96
Receipt Checklists . . . . . 108

## Job ID: 180-13966-1

### Laboratory: TestAmerica Pittsburgh

**Narrative**

**Job Narrative**
**180-13966-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/30/2012 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 4.4º C, 4.4º C, 4.5º C, 4.5º C, 4.6º C, 4.6º C and 4.6º C.

**GC/MS VOA**
Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 47275 exceeded control limits for the following analytes: Carbon Tetrachloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 47684 exceeded control limits; however the 5 controlling compounds passed.

No other analytical or quality issues were noted.

**GC/MS Semi VOA**
Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: 180-13966-13. Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 47683 exceeded control limits for the following analytes: pyridine These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270C: Kepone recovered 56% low in CCV, This compound was not detected in associated samples, results reported with narration.

No other analytical or quality issues were noted.

**GRO GC VOA**
Method(s) 8015B: Internal standard responses were outside of acceptance limits for the following sample(s): 180-13966-4, 180-13966-6, 180-13966-8, 180-13966-11. The sample(s) shows evidence of matrix interference.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13966-4, 180-13966-6, 180-13966-8, 180-13966-11. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: The following sample(s) was diluted due to the nature of the sample matrix: 180-13966-4, 180-13966-6, 180-13966-8, 180-13966-10, 180-13966-11. Elevated reporting limits (RLs) are provided.

Method(s) 8015B: The following samples required a dilution which was performed outside of the analytical holding time: 180-13966-4, 180-13966-6, 180-13966-8, 180-13966-11.

Method(s) 8015B: Surrogate recovery for the following samples was outside the upper control limit: 180-13966-4, 180-13966-6, 180-13966-8, 180-13966-11. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13966-13 for the initial analysis; sample was re-prepped at a dilution outside of the recommended holding time. Both sets of results are reported.

No other analytical or quality issues were noted.

## Job ID: 180-13966-1 (Continued)

### Laboratory: TestAmerica Pittsburgh (Continued)

**DRO GC Semi VOA**

Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: 180-13966-1, 180-13966-4, 180-13966-11, 180-13966-19. 3546 8015DRO

Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: 180-13966-5, 180-13966-7, 180-13966-9, 180-13966-12, 180-13966-14, 180-13966-16. 3520C 8015DRO

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 680-82411-14, 680-82411-14 MS, 680-82411-14 MSD. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13966-5, 180-13966-9, 180-13966-12, 180-13966-14, 180-13966-16. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13966-7. Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13966-1, 180-13966-19. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-13966-4, 180-13966-11. Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

No other analytical or quality issues were noted.

**Metals**

Method(s) 6010B: The following samples were diluted due to sodium and/or strontium to bring the concentration of target analytes within the calibration range: 180-13788-1, 180-13788-1 MS, 180-13788-1 MSD. Elevated reporting limits (RLs) are provided.

Method(s) 6010B: Due to the high concentration of iron, the matrix spike / matrix spike duplicate (MS/MSD) for batch 47816 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 6010B: The matrix spike duplicate (MSD) recoveries for batch 47816 were outside control limits for copper and manganese. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 7470A: The TCLP blank associated with batch 47657 was above the reporting limit. All samples were below the reporting limit and will be reported.

No other analytical or quality issues were noted.

**General Chemistry**

Method(s) 1664A: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: 180-13966-5, 180-13966-7, 180-13966-9, 180-13966-12, 180-13966-14. The reporting limits (RLs) have been adjusted proportionately.

Method(s) 9020B: Breakthrough exceeded 10% for the following sample(s):180-13966-5, 180-13966-9 & 180-13966-12. Re-analysis was performed with concurring results. The data have been reported.

No other analytical or quality issues were noted.

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description |
|---|---|
| * | LCS or LCSD exceeds the control limits |
| * | RPD of the LCS and LCSD exceeds the control limits |
| B | Compound was found in the blank and sample. |
| 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

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| * | LCS or LCSD exceeds the control limits |
| * | RPD of the LCS and LCSD exceeds the control limits |

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |
| H | Sample was prepped or analyzed beyond the specified holding time |
| 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

| Qualifier | Qualifier Description |
|---|---|
| H | Sample was prepped or analyzed beyond the specified holding time |
| X | Surrogate is outside control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-13 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oklahoma | State Program | 6 | 9412 | 08-31-13 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Solid | 08/28/12 16:15 | 08/30/12 09:15 |
| 180-13966-2 | 02W@1.5'-2.0' | Solid | 08/28/12 16:15 | 08/30/12 09:15 |
| 180-13966-3 | 02W | Water | 08/28/12 16:45 | 08/30/12 09:15 |
| 180-13966-4 | 28@2-4' | Solid | 08/28/12 14:10 | 08/30/12 09:15 |
| 180-13966-5 | 28W | Water | 08/28/12 14:25 | 08/30/12 09:15 |
| 180-13966-6 | 29W@2-4' | Solid | 08/28/12 12:45 | 08/30/12 09:15 |
| 180-13966-7 | 29W | Water | 08/28/12 13:00 | 08/30/12 09:15 |
| 180-13966-8 | 31W@2-4' | Solid | 08/28/12 11:30 | 08/30/12 09:15 |
| 180-13966-9 | 31W | Water | 08/28/12 11:50 | 08/30/12 09:15 |
| 180-13966-10 | 16@2-4' | Solid | 08/29/12 12:30 | 08/30/12 09:15 |
| 180-13966-11 | 31WD@2-4' | Solid | 08/28/12 11:30 | 08/30/12 09:15 |
| 180-13966-12 | 31WD | Water | 08/28/12 11:50 | 08/30/12 09:15 |
| 180-13966-13 | 33W@3-5' | Solid | 08/28/12 09:40 | 08/30/12 09:15 |
| 180-13966-14 | 33W | Water | 08/28/12 10:00 | 08/30/12 09:15 |
| 180-13966-15 | 17W@2-4' | Solid | 08/29/12 11:15 | 08/30/12 09:15 |
| 180-13966-16 | 17W | Water | 08/29/12 11:30 | 08/30/12 09:15 |
| 180-13966-17 | 19W@2-4' | Solid | 08/29/12 10:15 | 08/30/12 09:15 |
| 180-13966-18 | 19W | Water | 08/29/12 10:30 | 08/30/12 09:15 |
| 180-13966-19 | 20@2-4' | Solid | 08/29/12 09:50 | 08/30/12 09:15 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8260B | Volatile Organic Compounds by GC/MS | SW846 | TAL PIT |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8270C | Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | SW846 | TAL PIT |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL PIT |
| 6010B | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |
| 7471A | Mercury (CVAA) | SW846 | TAL PIT |
| 1664A | HEM and SGT-HEM | 1664A | TAL PIT |
| 9020B | Organic Halides, Total (TOX) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 02W@1-3'**
**Date Collected: 08/28/12 16:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-1**
**Matrix: Solid**
**Percent Solids: 81.0**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 25 | 6.2 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Benzene | ND | | 6.2 | 0.83 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Dichlorobromomethane | ND | | 6.2 | 0.69 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Bromoform | ND | | 6.2 | 0.55 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Bromomethane | ND | | 6.2 | 0.91 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 2-Butanone (MEK) | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Carbon disulfide | ND | | 6.2 | 0.63 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Carbon tetrachloride | ND | * | 6.2 | 0.55 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Chlorobenzene | ND | | 6.2 | 0.93 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Chloroethane | ND | | 6.2 | 1.9 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Chloroform | ND | | 6.2 | 0.72 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Chloromethane | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Chlorodibromomethane | ND | | 6.2 | 0.88 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,1-Dichloroethane | ND | | 6.2 | 0.71 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,2-Dichloroethane | ND | | 6.2 | 0.76 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,1-Dichloroethene | ND | | 6.2 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.6 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,2-Dichloropropane | ND | | 6.2 | 0.67 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 6.2 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 6.2 | 0.74 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Ethylbenzene | ND | | 6.2 | 0.79 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 2-Hexanone | ND | | 6.2 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Methylene Chloride | ND | | 6.2 | 0.83 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 6.2 | 0.81 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Styrene | ND | | 6.2 | 0.87 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.2 | 0.89 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Tetrachloroethene | ND | | 6.2 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,1,1-Trichloroethane | ND | | 6.2 | 0.60 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 6.2 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Trichloroethene | ND | | 6.2 | 0.81 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Vinyl chloride | ND | | 6.2 | 0.58 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Xylenes, Total | ND | | 19 | 2.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Cyclohexane | ND | | 6.2 | 0.46 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.2 | 0.92 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Dichlorodifluoromethane | ND | | 6.2 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 6.2 | 0.87 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 6.2 | 0.74 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Isopropylbenzene | ND | | 6.2 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Methyl acetate | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Methylcyclohexane | ND | | 6.2 | 0.90 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Methyl tert-butyl ether | ND | | 6.2 | 0.92 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Trichlorofluoromethane | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.2 | 1.3 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 6.2 | 0.98 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 6.2 | 0.81 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 6.2 | 0.79 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| Toluene | ND | | 6.2 | 0.90 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| o-Xylene | ND | | 6.2 | 0.96 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:32 | 1 |

**Client Sample ID: 02W@1-3'**
**Date Collected: 08/28/12 16:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-1**
**Matrix: Solid**
**Percent Solids: 81.0**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *82* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 07:32* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 07:32* | *1* |
| *4-Bromofluorobenzene (Surr)* | *81* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 07:32* | *1* |
| *Dibromofluoromethane (Surr)* | *91* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 07:32* | *1* |

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 82 | 7.9 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Acetophenone | ND | | 400 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Acenaphthylene | ND | | 82 | 9.4 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Anthracene | ND | | 82 | 8.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Benzo[a]anthracene | ND | | 82 | 10 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Benzo[a]pyrene | ND | | 82 | 8.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Benzo[b]fluoranthene | ND | | 82 | 13 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Benzo[g,h,i]perylene | ND | | 82 | 8.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Benzo[k]fluoranthene | ND | | 82 | 17 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Bis(2-chloroethyl)ether | ND | | 82 | 11 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 400 | 27 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 82 | 8.8 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 820 | 66 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 400 | 36 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Butyl benzyl phthalate | ND | | 400 | 56 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Carbazole | ND | | 82 | 7.5 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 4-Chloroaniline | ND | | 400 | 33 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2-Chloronaphthalene | ND | | 82 | 8.5 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 400 | 45 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Chrysene | ND | | 82 | 9.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Dibenz(a,h)anthracene | ND | | 82 | 9.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Dibenzofuran | ND | | 400 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Di-n-butyl phthalate | ND | | 400 | 51 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 400 | 43 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Diethyl phthalate | ND | | 400 | 45 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Dimethyl phthalate | ND | | 400 | 45 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2,4-Dinitrotoluene | ND | | 400 | 33 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2,6-Dinitrotoluene | ND | | 400 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Di-n-octyl phthalate | ND | | 400 | 43 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Fluoranthene | ND | | 82 | 8.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Fluorene | ND | | 82 | 11 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Hexachlorobenzene | ND | | 82 | 8.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Hexachlorobutadiene | ND | | 82 | 9.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Hexachlorocyclopentadiene | ND | | 400 | 44 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Hexachloroethane | ND | | 400 | 29 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 82 | 8.4 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Isophorone | ND | | 400 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2-Methylnaphthalene | ND | | 82 | 7.4 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| **Naphthalene** | **67** | **J** | 82 | 7.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2-Nitroaniline | ND | | 2100 | 180 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 3-Nitroaniline | ND | | 2100 | 170 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 4-Nitroaniline | ND | | 2100 | 170 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Nitrobenzene | ND | | 820 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 82 | 9.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| N-Nitrosodiphenylamine | ND | | 400 | 38 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 02W@1-3'**
**Date Collected: 08/28/12 16:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-1**
**Matrix: Solid**
**Percent Solids: 81.0**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 82 | 13 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Pyrene | ND | | 82 | 8.3 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 4-Chloro-3-methylphenol | ND | | 400 | 38 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2-Chlorophenol | ND | | 400 | 33 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2-Methylphenol | ND | | 400 | 29 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2,4-Dichlorophenol | ND | | 82 | 8.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2,4-Dimethylphenol | ND | | 400 | 64 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2,4-Dinitrophenol | ND | | 2100 | 490 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2100 | 160 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2-Nitrophenol | ND | | 400 | 45 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 4-Nitrophenol | ND | | 2100 | 150 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Pentachlorophenol | ND | | 400 | 37 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Phenol | ND | | 82 | 9.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2,4,5-Trichlorophenol | ND | | 400 | 44 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 2,4,6-Trichlorophenol | ND | | 400 | 61 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| 1,1'-Biphenyl | ND | | 400 | 36 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Caprolactam | ND | | 2100 | 310 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Benzaldehyde | ND | | 400 | 61 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Atrazine | ND | | 400 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |
| Methylphenol, 3 & 4 | ND | | 400 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *67* | | *25 - 104* | *09/06/12 06:00* | *09/07/12 18:21* | *1* |
| *2-Fluorobiphenyl* | *64* | | *35 - 105* | *09/06/12 06:00* | *09/07/12 18:21* | *1* |
| *Terphenyl-d14* | *73* | | *25 - 127* | *09/06/12 06:00* | *09/07/12 18:21* | *1* |
| *Phenol-d5* | *71* | | *25 - 105* | *09/06/12 06:00* | *09/07/12 18:21* | *1* |
| *2-Fluorophenol* | *74* | | *39 - 103* | *09/06/12 06:00* | *09/07/12 18:21* | *1* |
| *2,4,6-Tribromophenol* | *68* | | *35 - 124* | *09/06/12 06:00* | *09/07/12 18:21* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.31 | 0.023 | mg/Kg | ☼ | | 09/10/12 21:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *114* | | *70 - 131* | | *09/10/12 21:00* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 4.1 | 2.6 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 15:12 | 1 |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 20 | 3.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:34 | 1 |
| PCB-1221 | ND | | 20 | 3.9 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:34 | 1 |
| PCB-1232 | ND | | 20 | 3.5 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:34 | 1 |
| PCB-1242 | ND | | 20 | 3.3 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:34 | 1 |
| PCB-1248 | ND | | 20 | 1.9 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:34 | 1 |
| PCB-1254 | ND | | 20 | 2.9 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:34 | 1 |
| PCB-1260 | ND | | 20 | 2.9 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *83* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 05:34* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Client Sample ID: 02W@1-3'

**Lab Sample ID: 180-13966-1**
**Date Collected: 08/28/12 16:15**
**Matrix: Solid**
**Date Received: 08/30/12 09:15**
**Percent Solids: 81.0**

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| DCB Decachlorobiphenyl (Surr) | 62 | | 35 - 140 | 09/06/12 05:45 | 09/08/12 05:34 | 1 |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.65 | J | 1.2 | 0.26 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:31 | 1 |
| Barium | 20 | J | 24 | 0.059 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:37 | 1 |
| Cadmium | 0.12 | J | 0.59 | 0.028 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:37 | 1 |
| Chromium | 9.0 | | 0.59 | 0.10 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:37 | 1 |
| Lead | 8.8 | | 0.35 | 0.17 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:31 | 1 |
| Selenium | 0.78 | B | 0.59 | 0.24 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:31 | 1 |
| Silver | ND | | 0.59 | 0.068 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:37 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.047 | | 0.039 | 0.013 | mg/Kg | ☼ | 09/17/12 04:04 | 09/17/12 10:11 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 86 | J B | 210 | 29 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 19 | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| Percent Solids | 81 | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

## Client Sample ID: 02W@1.5'-2.0'

**Lab Sample ID: 180-13966-2**
**Date Collected: 08/28/12 16:15**
**Matrix: Solid**
**Date Received: 08/30/12 09:15**

### Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.0030 | J | 0.050 | 0.0027 | mg/L | | 09/07/12 11:55 | 09/09/12 22:27 | 1 |
| Barium | 0.12 | J B | 0.20 | 0.00062 | mg/L | | 09/07/12 11:55 | 09/09/12 22:27 | 1 |
| Cadmium | 0.00088 | J B | 0.050 | 0.00013 | mg/L | | 09/07/12 11:55 | 09/09/12 22:27 | 1 |
| Chromium | 0.0022 | J | 0.050 | 0.00057 | mg/L | | 09/07/12 11:55 | 09/09/12 22:27 | 1 |
| Lead | 0.012 | J | 0.050 | 0.0013 | mg/L | | 09/07/12 11:55 | 09/09/12 22:27 | 1 |
| Selenium | 0.012 | J B | 0.050 | 0.0030 | mg/L | | 09/07/12 11:55 | 09/09/12 22:27 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 09/07/12 11:55 | 09/09/12 22:27 | 1 |

### Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 09/07/12 14:22 | 09/07/12 18:58 | 1 |

## Client Sample ID: 02W

**Lab Sample ID: 180-13966-3**
**Date Collected: 08/28/12 16:45**
**Matrix: Water**
**Date Received: 08/30/12 09:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 09/07/12 15:15 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 09/07/12 15:15 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 15:15 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 15:15 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 09/07/12 15:15 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 02W**
**Date Collected: 08/28/12 16:45**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-3**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 15:15 | 1 |
| Carbon disulfide | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 15:15 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 15:15 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 15:15 | 1 |
| Chloroethane | ND | * | 5.0 | 0.75 | ug/L | | | 09/07/12 15:15 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 15:15 | 1 |
| Chloromethane | ND | * | 5.0 | 1.4 | ug/L | | | 09/07/12 15:15 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 09/07/12 15:15 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 15:15 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 09/07/12 15:15 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 09/07/12 15:15 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 09/07/12 15:15 | 1 |
| Methylene Chloride | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 15:15 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 09/07/12 15:15 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 15:15 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 15:15 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 09/07/12 15:15 | 1 |
| Vinyl chloride | ND | * | 5.0 | 1.3 | ug/L | | | 09/07/12 15:15 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 09/07/12 15:15 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | * | 5.0 | 0.35 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 09/07/12 15:15 | 1 |
| Dichlorodifluoromethane | ND | * | 5.0 | 0.64 | ug/L | | | 09/07/12 15:15 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 09/07/12 15:15 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 09/07/12 15:15 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 15:15 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 15:15 | 1 |
| Methylcyclohexane | ND | * | 5.0 | 0.56 | ug/L | | | 09/07/12 15:15 | 1 |
| Methyl tert-butyl ether | ND | * | 5.0 | 1.0 | ug/L | | | 09/07/12 15:15 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 09/07/12 15:15 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 15:15 | 1 |
| **1,2,4-Trichlorobenzene** | **1.2** | **J B *** | 5.0 | 0.38 | ug/L | | | 09/07/12 15:15 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 09/07/12 15:15 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 15:15 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 09/07/12 15:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *111* | | *62 - 123* | | *09/07/12 15:15* | *1* |
| *Toluene-d8 (Surr)* | *87* | | *80 - 120* | | *09/07/12 15:15* | *1* |
| *4-Bromofluorobenzene (Surr)* | *100* | | *75 - 120* | | *09/07/12 15:15* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 02W**
**Date Collected: 08/28/12 16:45**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-3**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Dibromofluoromethane (Surr)* | *118* | | *80 - 120* | | *09/07/12 15:15* | *1* |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Acetophenone | ND | | 9.6 | 0.77 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.6 | 0.56 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | 0.61 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Butyl benzyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 4-Chloroaniline | ND | | 9.6 | 0.85 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.6 | 0.48 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Dibenzofuran | ND | | 9.6 | 0.59 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Di-n-butyl phthalate | ND | | 9.6 | 1.2 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.6 | 1.1 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Diethyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Dimethyl phthalate | ND | | 9.6 | 0.74 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | 0.52 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.6 | 0.77 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Di-n-octyl phthalate | ND | | 9.6 | 2.0 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.6 | 0.50 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Hexachloroethane | ND | | 9.6 | 0.60 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Isophorone | ND | | 9.6 | 0.62 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.4 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.7 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Nitrobenzene | ND | | 19 | 0.81 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.6 | 0.82 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 02W**
**Date Collected: 08/28/12 16:45**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-3**
**Matrix: Water**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chloro-3-methylphenol | ND | | 9.6 | 0.73 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2-Chlorophenol | ND | | 9.6 | 1.6 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2-Methylphenol | ND | | 9.6 | 0.83 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2,4-Dimethylphenol | ND | | 9.6 | 0.82 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.9 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2-Nitrophenol | ND | | 9.6 | 1.6 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Pentachlorophenol | ND | | 9.6 | 0.64 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.6 | 1.5 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.6 | 1.7 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| 1,1'-Biphenyl | ND | | 9.6 | 0.40 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Benzaldehyde | ND | | 9.6 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Atrazine | ND | | 9.6 | 0.86 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.6 | 0.87 | ug/L | | 09/04/12 12:59 | 09/05/12 14:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *72* | | *37 - 104* | *09/04/12 12:59* | *09/05/12 14:47* | *1* |
| *2-Fluorobiphenyl* | *70* | | *35 - 108* | *09/04/12 12:59* | *09/05/12 14:47* | *1* |
| *Terphenyl-d14* | *60* | | *25 - 130* | *09/04/12 12:59* | *09/05/12 14:47* | *1* |
| *Phenol-d5* | *71* | | *30 - 102* | *09/04/12 12:59* | *09/05/12 14:47* | *1* |
| *2-Fluorophenol* | *76* | | *26 - 100* | *09/04/12 12:59* | *09/05/12 14:47* | *1* |
| *2,4,6-Tribromophenol* | *72* | | *33 - 122* | *09/04/12 12:59* | *09/05/12 14:47* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/11/12 15:40 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *102* | | *70 - 130* | | *09/11/12 15:40* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.081** | **J** | 0.099 | 0.050 | mg/L | | 09/04/12 15:31 | 09/06/12 18:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *64* | | *62 - 130* | *09/04/12 15:31* | *09/06/12 18:29* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 09/01/12 07:45 | 09/12/12 16:59 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 09/01/12 07:45 | 09/12/12 16:59 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 09/01/12 07:45 | 09/12/12 16:59 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 09/01/12 07:45 | 09/12/12 16:59 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 16:59 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 16:59 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 09/01/12 07:45 | 09/12/12 16:59 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Client Sample ID: 02W

**Lab Sample ID: 180-13966-3**

**Date Collected: 08/28/12 16:45**

**Matrix: Water**

**Date Received: 08/30/12 09:15**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *87* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 16:59* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *91* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 16:59* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **15** | | 10 | 2.7 | ug/L | | 09/04/12 09:06 | 09/05/12 16:26 | 1 |
| **Barium** | **290** | | 200 | 0.62 | ug/L | | 09/04/12 09:06 | 09/05/12 16:26 | 1 |
| **Cadmium** | **0.91** | **J** | 5.0 | 0.13 | ug/L | | 09/04/12 09:06 | 09/05/12 16:26 | 1 |
| **Chromium** | **160** | | 5.0 | 0.57 | ug/L | | 09/04/12 09:06 | 09/05/12 16:26 | 1 |
| **Lead** | **99** | | 3.0 | 1.3 | ug/L | | 09/04/12 09:06 | 09/05/12 16:26 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 09/04/12 09:06 | 09/05/12 16:26 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 09/04/12 09:06 | 09/05/12 16:26 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.49** | | 0.20 | 0.038 | ug/L | | 09/18/12 12:18 | 09/18/12 17:21 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.2 | 1.5 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |

## Client Sample ID: 28@2-4'

**Lab Sample ID: 180-13966-4**

**Date Collected: 08/28/12 14:10**

**Matrix: Solid**

**Date Received: 08/30/12 09:15**

**Percent Solids: 77.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.4 | 0.87 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:54 | 1 |
| Toluene | ND | | 6.4 | 0.94 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:54 | 1 |
| Ethylbenzene | ND | | 6.4 | 0.83 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:54 | 1 |
| Xylenes, Total | ND | | 19 | 2.9 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 07:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *87* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 07:54* | *1* |
| *Toluene-d8 (Surr)* | *107* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 07:54* | *1* |
| *4-Bromofluorobenzene (Surr)* | *78* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 07:54* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 07:54* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.19** | **J** | 0.32 | 0.024 | mg/Kg | ☼ | | 09/11/12 22:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *223* | *X* | *70 - 131* | | *09/11/12 22:29* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | H | 2.7 | 0.20 | mg/Kg | ☼ | | 09/12/12 20:17 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *139* | *X* | *70 - 131* | | *09/12/12 20:17* | *1* |

## Client Sample ID: 28@2-4'

**Date Collected: 08/28/12 14:10**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-4**
**Matrix: Solid**
**Percent Solids: 77.6**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 65 | | 4.2 | 2.7 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 17:19 | 1 |

### Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 66 | H | 4.2 | 2.7 | mg/Kg | ☼ | 09/13/12 13:37 | 09/13/12 21:15 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 13 | 9.0 | mg/Kg | ☼ | 09/13/12 06:30 | 09/13/12 06:46 | 1 |
| HEM | 150 | J B | 210 | 30 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 22 | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| Percent Solids | 78 | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

## Client Sample ID: 28W

**Date Collected: 08/28/12 14:25**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-5**
**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 09/01/12 21:33 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 09/01/12 21:33 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 09/01/12 21:33 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 09/01/12 21:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *64 - 135* | | *09/01/12 21:33* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *71 - 118* | | *09/01/12 21:33* | *1* |
| *4-Bromofluorobenzene (Surr)* | *86* | | *70 - 118* | | *09/01/12 21:33* | *1* |
| *Dibromofluoromethane (Surr)* | *108* | | *70 - 128* | | *09/01/12 21:33* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/11/12 16:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *101* | | *70 - 130* | | *09/11/12 16:06* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.26 | | 0.098 | 0.049 | mg/L | | 09/04/12 15:31 | 09/06/12 18:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *52* | *X* | *62 - 130* | *09/04/12 15:31* | *09/06/12 18:43* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 4.7 | J | 15 | 4.4 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |
| Halogens, Total Organic | 0.024 | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |
| TOX Result 1 | 0.024 | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |
| TOX Result 2 | 0.024 | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 29W@2-4'**
**Date Collected: 08/28/12 12:45**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-6**
**Matrix: Solid**
**Percent Solids: 80.1**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 25 | 6.2 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| **Benzene** | **1.7** | **J** | 6.2 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Dichlorobromomethane | ND | | 6.2 | 0.70 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Bromoform | ND | | 6.2 | 0.55 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Bromomethane | ND | | 6.2 | 0.92 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 2-Butanone (MEK) | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Carbon disulfide | ND | | 6.2 | 0.64 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Carbon tetrachloride | ND | * | 6.2 | 0.56 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Chlorobenzene | ND | | 6.2 | 0.95 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Chloroethane | ND | | 6.2 | 1.9 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Chloroform | ND | | 6.2 | 0.73 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Chloromethane | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Chlorodibromomethane | ND | | 6.2 | 0.89 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,1-Dichloroethane | ND | | 6.2 | 0.72 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,2-Dichloroethane | ND | | 6.2 | 0.77 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,1-Dichloroethene | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.6 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,2-Dichloropropane | ND | | 6.2 | 0.68 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| cis-1,3-Dichloropropene | ND | | 6.2 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| trans-1,3-Dichloropropene | ND | | 6.2 | 0.75 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Ethylbenzene | ND | | 6.2 | 0.80 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 2-Hexanone | ND | | 6.2 | 0.86 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Methylene Chloride | ND | | 6.2 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 6.2 | 0.81 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Styrene | ND | | 6.2 | 0.88 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.2 | 0.90 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Tetrachloroethene | ND | | 6.2 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,1,1-Trichloroethane | ND | | 6.2 | 0.61 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,1,2-Trichloroethane | ND | | 6.2 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Trichloroethene | ND | | 6.2 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Vinyl chloride | ND | | 6.2 | 0.59 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Xylenes, Total | ND | | 19 | 2.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Cyclohexane | ND | | 6.2 | 0.46 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.2 | 0.93 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Dichlorodifluoromethane | ND | | 6.2 | 0.83 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| cis-1,2-Dichloroethene | ND | | 6.2 | 0.88 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| trans-1,2-Dichloroethene | ND | | 6.2 | 0.74 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Isopropylbenzene | ND | | 6.2 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Methyl acetate | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Methylcyclohexane | ND | | 6.2 | 0.90 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Methyl tert-butyl ether | ND | | 6.2 | 0.93 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Trichlorofluoromethane | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.2 | 1.3 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,2-Dichlorobenzene | ND | | 6.2 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,3-Dichlorobenzene | ND | | 6.2 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,4-Dichlorobenzene | ND | | 6.2 | 0.79 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| Toluene | ND | | 6.2 | 0.91 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| o-Xylene | ND | | 6.2 | 0.97 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:17 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 29W@2-4'**
**Date Collected: 08/28/12 12:45**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-6**
**Matrix: Solid**
**Percent Solids: 80.1**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *83* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 08:17* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 08:17* | *1* |
| *4-Bromofluorobenzene (Surr)* | *79* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 08:17* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 08:17* | *1* |

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **9.6** | **J** | 82 | 7.9 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Acetophenone** | **42** | **J** | 410 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Acenaphthylene | ND | | 82 | 9.4 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Anthracene** | **16** | **J** | 82 | 8.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Benzo[a]anthracene** | **76** | **J** | 82 | 10 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Benzo[a]pyrene** | **44** | **J** | 82 | 8.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Benzo[b]fluoranthene** | **84** | | 82 | 13 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Benzo[g,h,i]perylene** | **56** | **J** | 82 | 8.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Benzo[k]fluoranthene | ND | | 82 | 17 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Bis(2-chloroethyl)ether | ND | | 82 | 11 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 410 | 27 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 82 | 8.9 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Bis(2-ethylhexyl) phthalate** | **78** | **J** | 820 | 66 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 410 | 36 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Butyl benzyl phthalate | ND | | 410 | 56 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Carbazole** | **8.1** | **J** | 82 | 7.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 4-Chloroaniline | ND | | 410 | 33 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2-Chloronaphthalene | ND | | 82 | 8.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 410 | 46 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Chrysene** | **110** | | 82 | 9.8 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Dibenz(a,h)anthracene** | **27** | **J** | 82 | 9.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Dibenzofuran | ND | | 410 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Di-n-butyl phthalate | ND | | 410 | 51 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 410 | 43 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Diethyl phthalate | ND | | 410 | 45 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Dimethyl phthalate | ND | | 410 | 45 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2,4-Dinitrotoluene | ND | | 410 | 33 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2,6-Dinitrotoluene | ND | | 410 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Di-n-octyl phthalate | ND | | 410 | 43 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Fluoranthene** | **80** | **J** | 82 | 8.8 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Fluorene** | **12** | **J** | 82 | 11 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Hexachlorobenzene | ND | | 82 | 8.8 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Hexachlorobutadiene | ND | | 82 | 9.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Hexachlorocyclopentadiene | ND | | 410 | 44 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Hexachloroethane | ND | | 410 | 30 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **35** | **J** | 82 | 8.5 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Isophorone | ND | | 410 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **2-Methylnaphthalene** | **81** | **J** | 82 | 7.4 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Naphthalene** | **130** | | 82 | 7.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2-Nitroaniline | ND | | 2100 | 180 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 3-Nitroaniline | ND | | 2100 | 170 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 4-Nitroaniline | ND | | 2100 | 170 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Nitrobenzene | ND | | 820 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 82 | 9.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| N-Nitrosodiphenylamine | ND | | 410 | 38 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 29W@2-4'**
**Date Collected: 08/28/12 12:45**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-6**
**Matrix: Solid**
**Percent Solids: 80.1**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Phenanthrene** | **130** | | 82 | 13 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| **Pyrene** | **86** | | 82 | 8.3 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 4-Chloro-3-methylphenol | ND | | 410 | 38 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2-Chlorophenol | ND | | 410 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2-Methylphenol | ND | | 410 | 29 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2,4-Dichlorophenol | ND | | 82 | 8.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2,4-Dimethylphenol | ND | | 410 | 64 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2,4-Dinitrophenol | ND | | 2100 | 490 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 2100 | 170 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2-Nitrophenol | ND | | 410 | 45 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 4-Nitrophenol | ND | | 2100 | 150 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Pentachlorophenol | ND | | 410 | 37 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Phenol | ND | | 82 | 9.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2,4,5-Trichlorophenol | ND | | 410 | 44 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 2,4,6-Trichlorophenol | ND | | 410 | 61 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| 1,1'-Biphenyl | ND | | 410 | 37 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Caprolactam | ND | | 2100 | 310 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Benzaldehyde | ND | | 410 | 62 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Atrazine | ND | | 410 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |
| Methylphenol, 3 & 4 | ND | | 410 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 18:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *67* | | *25 - 104* | *09/06/12 06:00* | *09/07/12 18:46* | *1* |
| *2-Fluorobiphenyl* | *66* | | *35 - 105* | *09/06/12 06:00* | *09/07/12 18:46* | *1* |
| *Terphenyl-d14* | *74* | | *25 - 127* | *09/06/12 06:00* | *09/07/12 18:46* | *1* |
| *Phenol-d5* | *66* | | *25 - 105* | *09/06/12 06:00* | *09/07/12 18:46* | *1* |
| *2-Fluorophenol* | *71* | | *39 - 103* | *09/06/12 06:00* | *09/07/12 18:46* | *1* |
| *2,4,6-Tribromophenol* | *72* | | *35 - 124* | *09/06/12 06:00* | *09/07/12 18:46* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.31 | 0.024 | mg/Kg | ☼ | | 09/11/12 22:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *140* | *X* | *70 - 131* | | *09/11/12 22:48* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | H | 1.7 | 0.13 | mg/Kg | ☼ | | 09/12/12 17:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *136* | *X* | *70 - 131* | | *09/12/12 17:21* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **7.0** | | 4.1 | 2.6 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 15:27 | 1 |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 21 | 3.1 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:59 | 1 |
| PCB-1221 | ND | | 21 | 4.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:59 | 1 |

## Client Sample ID: 29W@2-4'

**Date Collected: 08/28/12 12:45**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-6

**Matrix: Solid**
**Percent Solids: 80.1**

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1232 | ND | | 21 | 3.6 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:59 | 1 |
| PCB-1242 | ND | | 21 | 3.4 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:59 | 1 |
| PCB-1248 | ND | | 21 | 2.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:59 | 1 |
| PCB-1254 | ND | | 21 | 3.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:59 | 1 |
| PCB-1260 | ND | | 21 | 3.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 05:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *71* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 05:59* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *54* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 05:59* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.4** | | 1.2 | 0.26 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:36 | 1 |
| **Barium** | **120** | | 24 | 0.059 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:42 | 1 |
| Cadmium | ND | | 0.59 | 0.028 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:42 | 1 |
| **Chromium** | **12** | | 0.59 | 0.10 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:42 | 1 |
| **Lead** | **170** | | 0.35 | 0.17 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:36 | 1 |
| **Selenium** | **1.3** | **B** | 0.59 | 0.24 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:36 | 1 |
| Silver | ND | | 0.59 | 0.068 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:42 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.22** | | 0.041 | 0.014 | mg/Kg | ☼ | 09/17/12 04:04 | 09/17/12 10:13 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM** | **62** | **J B** | 210 | 29 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **20** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| **Percent Solids** | **80** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

## Client Sample ID: 29W

**Date Collected: 08/28/12 13:00**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-7

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 09/07/12 15:39 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 09/07/12 15:39 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 15:39 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 15:39 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 09/07/12 15:39 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 15:39 | 1 |
| Carbon disulfide | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 15:39 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 15:39 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 15:39 | 1 |
| Chloroethane | ND | * | 5.0 | 0.75 | ug/L | | | 09/07/12 15:39 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 15:39 | 1 |
| Chloromethane | ND | * | 5.0 | 1.4 | ug/L | | | 09/07/12 15:39 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 09/07/12 15:39 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 29W**
**Date Collected: 08/28/12 13:00**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-7**
**Matrix: Water**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 09/07/12 15:39 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 15:39 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 09/07/12 15:39 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 09/07/12 15:39 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 09/07/12 15:39 | 1 |
| Methylene Chloride | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 15:39 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 09/07/12 15:39 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 15:39 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 15:39 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 09/07/12 15:39 | 1 |
| Vinyl chloride | ND | * | 5.0 | 1.3 | ug/L | | | 09/07/12 15:39 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 09/07/12 15:39 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | * | 5.0 | 0.35 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 09/07/12 15:39 | 1 |
| Dichlorodifluoromethane | ND | * | 5.0 | 0.64 | ug/L | | | 09/07/12 15:39 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 09/07/12 15:39 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 09/07/12 15:39 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 15:39 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 15:39 | 1 |
| Methylcyclohexane | ND | * | 5.0 | 0.56 | ug/L | | | 09/07/12 15:39 | 1 |
| Methyl tert-butyl ether | ND | * | 5.0 | 1.0 | ug/L | | | 09/07/12 15:39 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 09/07/12 15:39 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 15:39 | 1 |
| **1,2,4-Trichlorobenzene** | **0.63** | **J B *** | 5.0 | 0.38 | ug/L | | | 09/07/12 15:39 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 09/07/12 15:39 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 15:39 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 09/07/12 15:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *62 - 123* | | *09/07/12 15:39* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *80 - 120* | | *09/07/12 15:39* | *1* |
| *4-Bromofluorobenzene (Surr)* | *98* | | *75 - 120* | | *09/07/12 15:39* | *1* |
| *Dibromofluoromethane (Surr)* | *111* | | *80 - 120* | | *09/07/12 15:39* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Acetophenone | ND | | 9.4 | 0.75 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 29W**
**Date Collected: 08/28/12 13:00**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-7**
**Matrix: Water**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.52 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.4 | 0.55 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.4 | 0.60 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Butyl benzyl phthalate | ND | | 9.4 | 1.3 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 4-Chloroaniline | ND | | 9.4 | 0.83 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.4 | 0.47 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Dibenzofuran | ND | | 9.4 | 0.58 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Di-n-butyl phthalate | ND | | 9.4 | 1.2 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.4 | 1.1 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Diethyl phthalate | ND | | 9.4 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Dimethyl phthalate | ND | | 9.4 | 0.72 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.4 | 0.51 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.4 | 0.75 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Di-n-octyl phthalate | ND | | 9.4 | 1.9 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Fluorene | ND | | 1.9 | 0.20 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.17 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.4 | 0.49 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Hexachloroethane | ND | | 9.4 | 0.59 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Isophorone | ND | | 9.4 | 0.61 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2-Nitroaniline | ND | | 47 | 3.3 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 3-Nitroaniline | ND | | 47 | 3.0 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 4-Nitroaniline | ND | | 47 | 1.6 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Nitrobenzene | ND | | 19 | 0.80 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.29 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.4 | 0.80 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Phenanthrene | ND | | 1.9 | 0.40 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.4 | 0.71 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2-Chlorophenol | ND | | 9.4 | 1.6 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2-Methylphenol | ND | | 9.4 | 0.81 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2,4-Dimethylphenol | ND | | 9.4 | 0.80 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2,4-Dinitrophenol | ND | | 47 | 5.8 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 47 | 2.1 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2-Nitrophenol | ND | | 9.4 | 1.6 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 4-Nitrophenol | ND | | 47 | 6.1 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Pentachlorophenol | ND | | 9.4 | 0.63 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |

**Client Sample ID: 29W**
**Date Collected: 08/28/12 13:00**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-7**
**Matrix: Water**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenol | ND | | 1.9 | 0.55 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.4 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.4 | 1.7 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| 1,1'-Biphenyl | ND | | 9.4 | 0.39 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Caprolactam | ND | | 47 | 11 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| **Benzaldehyde** | **5.0** | **J** | 9.4 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Atrazine | ND | | 9.4 | 0.84 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.4 | 0.85 | ug/L | | 09/04/12 12:59 | 09/05/12 15:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *59* | | *37 - 104* | *09/04/12 12:59* | *09/05/12 15:12* | *1* |
| *2-Fluorobiphenyl* | *61* | | *35 - 108* | *09/04/12 12:59* | *09/05/12 15:12* | *1* |
| *Terphenyl-d14* | *56* | | *25 - 130* | *09/04/12 12:59* | *09/05/12 15:12* | *1* |
| *Phenol-d5* | *70* | | *30 - 102* | *09/04/12 12:59* | *09/05/12 15:12* | *1* |
| *2-Fluorophenol* | *69* | | *26 - 100* | *09/04/12 12:59* | *09/05/12 15:12* | *1* |
| *2,4,6-Tribromophenol* | *66* | | *33 - 122* | *09/04/12 12:59* | *09/05/12 15:12* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/11/12 16:31 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *102* | | *70 - 130* | | *09/11/12 16:31* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.88** | | 0.098 | 0.049 | mg/L | | 09/04/12 15:31 | 09/06/12 18:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *57* | *X* | *62 - 130* | *09/04/12 15:31* | *09/06/12 18:57* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.99** | **H** | 0.095 | 0.047 | mg/L | | 09/12/12 14:58 | 09/13/12 17:05 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *66* | | *62 - 130* | *09/12/12 14:58* | *09/13/12 17:05* | *1* |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 09/01/12 07:45 | 09/12/12 17:24 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 09/01/12 07:45 | 09/12/12 17:24 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 09/01/12 07:45 | 09/12/12 17:24 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 09/01/12 07:45 | 09/12/12 17:24 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 17:24 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 17:24 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 09/01/12 07:45 | 09/12/12 17:24 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *75* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 17:24* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *86* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 17:24* | *1* |

## Client Sample ID: 29W

**Lab Sample ID: 180-13966-7**

**Date Collected: 08/28/12 13:00**

**Matrix: Water**

**Date Received: 08/30/12 09:15**

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **77** | | 10 | 2.7 | ug/L | | 09/04/12 09:06 | 09/05/12 16:41 | 1 |
| **Barium** | **230** | | 200 | 0.62 | ug/L | | 09/04/12 09:06 | 09/05/12 16:41 | 1 |
| **Cadmium** | **0.37** | **J** | 5.0 | 0.13 | ug/L | | 09/04/12 09:06 | 09/05/12 16:41 | 1 |
| **Chromium** | **120** | | 5.0 | 0.57 | ug/L | | 09/04/12 09:06 | 09/05/12 16:41 | 1 |
| **Lead** | **110** | | 3.0 | 1.3 | ug/L | | 09/04/12 09:06 | 09/05/12 16:41 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 09/04/12 09:06 | 09/05/12 16:41 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 09/04/12 09:06 | 09/05/12 16:41 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.092** | **J** | 0.20 | 0.038 | ug/L | | 09/18/12 12:18 | 09/18/12 17:24 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 10 | 3.0 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |

## Client Sample ID: 31W@2-4'

**Lab Sample ID: 180-13966-8**

**Date Collected: 08/28/12 11:30**

**Matrix: Solid**

**Date Received: 08/30/12 09:15**

**Percent Solids: 73.4**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.8 | 0.92 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:38 | 1 |
| Toluene | ND | | 6.8 | 0.99 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:38 | 1 |
| Ethylbenzene | ND | | 6.8 | 0.88 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:38 | 1 |
| Xylenes, Total | ND | | 20 | 3.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 08:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *81* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 08:38* | *1* |
| *Toluene-d8 (Surr)* | *101* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 08:38* | *1* |
| *4-Bromofluorobenzene (Surr)* | *83* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 08:38* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 08:38* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **0.098** | **J** | 0.34 | 0.026 | mg/Kg | ☼ | | 09/11/12 23:08 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *286* | *X* | *70 - 131* | | *09/11/12 23:08* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | H | 1.5 | 0.12 | mg/Kg | ☼ | | 09/12/12 17:41 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *139* | *X* | *70 - 131* | | *09/12/12 17:41* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **59** | | 4.5 | 2.8 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 17:05 | 1 |

## Client Sample ID: 31W@2-4'

**Lab Sample ID: 180-13966-8**

**Date Collected: 08/28/12 11:30**
**Matrix: Solid**
**Date Received: 08/30/12 09:15**
**Percent Solids: 73.4**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 14 | 9.5 | mg/Kg | ☼ | 09/17/12 02:00 | 09/17/12 14:30 | 1 |
| **HEM** | **330** | **B** | 230 | 31 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **27** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| **Percent Solids** | **73** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

## Client Sample ID: 31W

**Lab Sample ID: 180-13966-9**

**Date Collected: 08/28/12 11:50**
**Matrix: Water**
**Date Received: 08/30/12 09:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 09/01/12 21:57 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 09/01/12 21:57 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 09/01/12 21:57 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 09/01/12 21:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *110* | | *64 - 135* | | *09/01/12 21:57* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *71 - 118* | | *09/01/12 21:57* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *70 - 118* | | *09/01/12 21:57* | *1* |
| *Dibromofluoromethane (Surr)* | *111* | | *70 - 128* | | *09/01/12 21:57* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/11/12 16:57 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 130* | | *09/11/12 16:57* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.16** | | 0.096 | 0.048 | mg/L | | 09/04/12 15:31 | 09/06/12 19:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *47* | *X* | *62 - 130* | *09/04/12 15:31* | *09/06/12 19:11* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 8.3 | 2.5 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |
| **Halogens, Total Organic** | **0.039** | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |
| **TOX Result 1** | **0.041** | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |
| **TOX Result 2** | **0.037** | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |

## Client Sample ID: 16@2-4'

**Lab Sample ID: 180-13966-10**

**Date Collected: 08/29/12 12:30**
**Matrix: Solid**
**Date Received: 08/30/12 09:15**
**Percent Solids: 88.7**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.6 | 0.76 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:00 | 1 |
| Toluene | ND | | 5.6 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:00 | 1 |

## Client Sample ID: 16@2-4'

**Date Collected: 08/29/12 12:30**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-10

**Matrix: Solid**
**Percent Solids: 88.7**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | ND | | 5.6 | 0.72 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:00 | 1 |
| Xylenes, Total | ND | | 17 | 2.5 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *83* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 09:00* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 09:00* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 09:00* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 09:00* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 1.5 | 0.12 | mg/Kg | ☼ | | 09/12/12 19:58 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 131* | | *09/12/12 19:58* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.7 | 2.3 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 15:41 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 11 | 7.9 | mg/Kg | ☼ | 09/17/12 02:00 | 09/17/12 14:30 | 1 |
| **HEM** | **34** | **J B** | 190 | 26 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **11** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| **Percent Solids** | **89** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

## Client Sample ID: 31WD@2-4'

**Date Collected: 08/28/12 11:30**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-11

**Matrix: Solid**
**Percent Solids: 76.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 6.5 | 0.88 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:21 | 1 |
| Toluene | ND | | 6.5 | 0.95 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:21 | 1 |
| Ethylbenzene | ND | | 6.5 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:21 | 1 |
| Xylenes, Total | ND | | 20 | 2.9 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *85* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 09:21* | *1* |
| *Toluene-d8 (Surr)* | *103* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 09:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *84* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 09:21* | *1* |
| *Dibromofluoromethane (Surr)* | *97* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 09:21* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.33 | 0.025 | mg/Kg | ☼ | | 09/11/12 23:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *268* | *X* | *70 - 131* | | *09/11/12 23:27* | *1* |

## Client Sample ID: 31WD@2-4'

**Date Collected: 08/28/12 11:30**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-11

**Matrix: Solid**
**Percent Solids: 76.6**

### Method: 8015B - Gasoline Range Organics - (GC) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | H | 1.7 | 0.13 | mg/Kg | ☼ | | 09/12/12 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *141* | *X* | *70 - 131* | | *09/12/12 18:00* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **120** | | 4.3 | 2.7 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 16:51 | 1 |

### Method: 8015B - Diesel Range Organics (DRO) (GC) - RE

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **29** | **H** | 4.3 | 2.7 | mg/Kg | ☼ | 09/13/12 13:37 | 09/13/12 21:29 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 13 | 9.1 | mg/Kg | ☼ | 09/17/12 02:00 | 09/17/12 14:30 | 1 |
| **HEM** | **1000** | **B** | 220 | 30 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **23** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| **Percent Solids** | **77** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

## Client Sample ID: 31WD

**Date Collected: 08/28/12 11:50**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-12

**Matrix: Water**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 09/01/12 22:21 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 09/01/12 22:21 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 09/01/12 22:21 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 09/01/12 22:21 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *108* | | *64 - 135* | | *09/01/12 22:21* | *1* |
| *Toluene-d8 (Surr)* | *102* | | *71 - 118* | | *09/01/12 22:21* | *1* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *70 - 118* | | *09/01/12 22:21* | *1* |
| *Dibromofluoromethane (Surr)* | *109* | | *70 - 128* | | *09/01/12 22:21* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/11/12 17:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 130* | | *09/11/12 17:22* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.41** | | 0.099 | 0.049 | mg/L | | 09/04/12 15:31 | 09/06/12 19:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *32* | *X* | *62 - 130* | *09/04/12 15:31* | *09/06/12 19:25* | *1* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Client Sample ID: 31WD

**Date Collected: 08/28/12 11:50**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-12

**Matrix: Water**

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 14 | 4.3 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |
| **Halogens, Total Organic** | **0.047** | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |
| **TOX Result 1** | **0.051** | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |
| **TOX Result 2** | **0.043** | | 0.020 | 0.0070 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 2 |

## Client Sample ID: 33W@3-5'

**Date Collected: 08/28/12 09:40**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-13

**Matrix: Solid**
**Percent Solids: 80.0**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 25 | 6.2 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Benzene | ND | | 6.2 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Dichlorobromomethane | ND | | 6.2 | 0.70 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Bromoform | ND | | 6.2 | 0.55 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Bromomethane | ND | | 6.2 | 0.92 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 2-Butanone (MEK) | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Carbon disulfide | ND | | 6.2 | 0.64 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Carbon tetrachloride | ND | * | 6.2 | 0.56 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Chlorobenzene | ND | | 6.2 | 0.95 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Chloroethane | ND | | 6.2 | 1.9 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Chloroform | ND | | 6.2 | 0.73 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Chloromethane | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Chlorodibromomethane | ND | | 6.2 | 0.89 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,1-Dichloroethane | ND | | 6.2 | 0.72 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,2-Dichloroethane | ND | | 6.2 | 0.77 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,1-Dichloroethene | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.6 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,2-Dichloropropane | ND | | 6.2 | 0.68 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| cis-1,3-Dichloropropene | ND | | 6.2 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| trans-1,3-Dichloropropene | ND | | 6.2 | 0.75 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Ethylbenzene | ND | | 6.2 | 0.80 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 2-Hexanone | ND | | 6.2 | 0.86 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Methylene Chloride | ND | | 6.2 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 6.2 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Styrene | ND | | 6.2 | 0.88 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 6.2 | 0.90 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Tetrachloroethene | ND | | 6.2 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,1,1-Trichloroethane | ND | | 6.2 | 0.61 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,1,2-Trichloroethane | ND | | 6.2 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Trichloroethene | ND | | 6.2 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Vinyl chloride | ND | | 6.2 | 0.59 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Xylenes, Total | ND | | 19 | 2.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Cyclohexane | ND | | 6.2 | 0.46 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.2 | 0.94 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Dichlorodifluoromethane | ND | | 6.2 | 0.83 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| cis-1,2-Dichloroethene | ND | | 6.2 | 0.88 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| trans-1,2-Dichloroethene | ND | | 6.2 | 0.74 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Isopropylbenzene | ND | | 6.2 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Methyl acetate | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 33W@3-5'**
**Date Collected: 08/28/12 09:40**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-13**
**Matrix: Solid**
**Percent Solids: 80.0**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Methylcyclohexane | ND | | 6.2 | 0.91 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Methyl tert-butyl ether | ND | | 6.2 | 0.93 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Trichlorofluoromethane | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.2 | 1.3 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,2-Dichlorobenzene | ND | | 6.2 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,3-Dichlorobenzene | ND | | 6.2 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,4-Dichlorobenzene | ND | | 6.2 | 0.80 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 6.2 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| Toluene | ND | | 6.2 | 0.91 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| o-Xylene | ND | | 6.2 | 0.97 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 09:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *94* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 09:43* | *1* |
| *Toluene-d8 (Surr)* | *97* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 09:43* | *1* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 09:43* | *1* |
| *Dibromofluoromethane (Surr)* | *96* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 09:43* | *1* |

### Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 09/07/12 17:04 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 09/07/12 17:04 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 09/07/12 17:04 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 09/07/12 17:04 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 09/07/12 17:04 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 09/07/12 17:04 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 09/07/12 17:04 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 09/07/12 17:04 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 09/07/12 17:04 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 09/07/12 17:04 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *101* | | *80 - 120* | | *09/07/12 17:04* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *90* | | *62 - 123* | | *09/07/12 17:04* | *40* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *75 - 120* | | *09/07/12 17:04* | *40* |
| *Dibromofluoromethane (Surr)* | *106* | | *80 - 120* | | *09/07/12 17:04* | *40* |

### Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| Pyridine | ND | * | 0.10 | 0.00083 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 09/07/12 15:15 | 09/11/12 05:41 | 1 |

**Client Sample ID: 33W@3-5'**
**Date Collected: 08/28/12 09:40**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-13**
**Matrix: Solid**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *77* | | *19 - 138* | *09/07/12 15:15* | *09/11/12 05:41* | *1* |
| *2-Fluorobiphenyl* | *68* | | *35 - 115* | *09/07/12 15:15* | *09/11/12 05:41* | *1* |
| *2-Fluorophenol* | *74* | | *20 - 110* | *09/07/12 15:15* | *09/11/12 05:41* | *1* |
| *Nitrobenzene-d5* | *73* | | *39 - 115* | *09/07/12 15:15* | *09/11/12 05:41* | *1* |
| *Phenol-d5* | *79* | | *30 - 118* | *09/07/12 15:15* | *09/11/12 05:41* | *1* |
| *Terphenyl-d14* | *101* | | *30 - 143* | *09/07/12 15:15* | *09/11/12 05:41* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **280** | | 170 | 16 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Acetophenone | ND | | 820 | 68 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Acenaphthylene | ND | | 170 | 19 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Anthracene | ND | | 170 | 16 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Benzo[a]anthracene | ND | | 170 | 21 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Benzo[a]pyrene | ND | | 170 | 17 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Benzo[b]fluoranthene | ND | | 170 | 26 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Benzo[g,h,i]perylene | ND | | 170 | 16 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Benzo[k]fluoranthene | ND | | 170 | 33 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Bis(2-chloroethyl)ether | ND | | 170 | 22 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Bis(2-chloroethoxy)methane | ND | | 820 | 55 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| bis (2-chloroisopropyl) ether | ND | | 170 | 18 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Bis(2-ethylhexyl) phthalate | ND | | 1700 | 130 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 4-Bromophenyl phenyl ether | ND | | 820 | 72 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Butyl benzyl phthalate | ND | | 820 | 110 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Carbazole | ND | | 170 | 15 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 4-Chloroaniline | ND | | 820 | 66 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2-Chloronaphthalene | ND | | 170 | 17 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 4-Chlorophenyl phenyl ether | ND | | 820 | 92 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Chrysene | ND | | 170 | 20 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Dibenz(a,h)anthracene | ND | | 170 | 18 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Dibenzofuran | ND | | 820 | 81 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Di-n-butyl phthalate | ND | | 820 | 100 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 3,3'-Dichlorobenzidine | ND | | 820 | 88 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Diethyl phthalate | ND | | 820 | 90 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Dimethyl phthalate | ND | | 820 | 90 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2,4-Dinitrotoluene | ND | | 820 | 67 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2,6-Dinitrotoluene | ND | | 820 | 85 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Di-n-octyl phthalate | ND | | 820 | 87 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Fluoranthene | ND | | 170 | 18 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| **Fluorene** | **380** | | 170 | 22 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Hexachlorobenzene | ND | | 170 | 18 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Hexachlorobutadiene | ND | | 170 | 19 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Hexachlorocyclopentadiene | ND | | 820 | 89 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Hexachloroethane | ND | | 820 | 60 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Indeno[1,2,3-cd]pyrene | ND | | 170 | 17 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Isophorone | ND | | 820 | 62 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| **2-Methylnaphthalene** | **130** | **J** | 170 | 15 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Naphthalene | ND | | 170 | 14 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2-Nitroaniline | ND | | 4200 | 370 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 3-Nitroaniline | ND | | 4200 | 340 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 4-Nitroaniline | ND | | 4200 | 340 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Nitrobenzene | ND | | 1700 | 69 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 33W@3-5'**
**Date Collected: 08/28/12 09:40**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-13**
**Matrix: Solid**
**Percent Solids: 80.0**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| N-Nitrosodi-n-propylamine | ND | | 170 | 19 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| N-Nitrosodiphenylamine | ND | | 820 | 77 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| **Phenanthrene** | **440** | | 170 | 26 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| **Pyrene** | **85** | **J** | 170 | 17 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 4-Chloro-3-methylphenol | ND | | 820 | 76 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2-Chlorophenol | ND | | 820 | 68 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2-Methylphenol | ND | | 820 | 58 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2,4-Dichlorophenol | ND | | 170 | 17 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2,4-Dimethylphenol | ND | | 820 | 130 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2,4-Dinitrophenol | ND | | 4200 | 990 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 4,6-Dinitro-2-methylphenol | ND | | 4200 | 330 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2-Nitrophenol | ND | | 820 | 91 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 4-Nitrophenol | ND | | 4200 | 300 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Pentachlorophenol | ND | | 820 | 74 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Phenol | ND | | 170 | 20 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2,4,5-Trichlorophenol | ND | | 820 | 88 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 2,4,6-Trichlorophenol | ND | | 820 | 120 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| 1,1'-Biphenyl | ND | | 820 | 74 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Caprolactam | ND | | 4200 | 630 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Benzaldehyde | ND | | 820 | 120 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Atrazine | ND | | 820 | 81 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |
| Methylphenol, 3 & 4 | ND | | 820 | 81 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:11 | 2 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *80* | | *25 - 104* | *09/06/12 06:00* | *09/07/12 19:11* | *2* |
| *2-Fluorobiphenyl* | *78* | | *35 - 105* | *09/06/12 06:00* | *09/07/12 19:11* | *2* |
| *Terphenyl-d14* | *79* | | *25 - 127* | *09/06/12 06:00* | *09/07/12 19:11* | *2* |
| *Phenol-d5* | *83* | | *25 - 105* | *09/06/12 06:00* | *09/07/12 19:11* | *2* |
| *2-Fluorophenol* | *88* | | *39 - 103* | *09/06/12 06:00* | *09/07/12 19:11* | *2* |
| *2,4,6-Tribromophenol* | *88* | | *35 - 124* | *09/06/12 06:00* | *09/07/12 19:11* | *2* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **1.9** | | 0.31 | 0.024 | mg/Kg | ☼ | | 09/10/12 22:38 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *57* | *X* | *70 - 131* | | *09/10/12 22:38* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **3.4** | **H** | 1.5 | 0.11 | mg/Kg | ☼ | | 09/12/12 20:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *75* | | *70 - 131* | | *09/12/12 20:37* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **240** | | 4.1 | 2.6 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 16:37 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 33W@3-5'**
**Date Collected: 08/28/12 09:40**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-13**
**Matrix: Solid**
**Percent Solids: 80.0**

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 21 | 3.1 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:23 | 1 |
| PCB-1221 | ND | | 21 | 4.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:23 | 1 |
| PCB-1232 | ND | | 21 | 3.6 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:23 | 1 |
| PCB-1242 | ND | | 21 | 3.4 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:23 | 1 |
| PCB-1248 | ND | | 21 | 2.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:23 | 1 |
| PCB-1254 | ND | | 21 | 3.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:23 | 1 |
| PCB-1260 | ND | | 21 | 3.0 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:23 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *60* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 06:23* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *68* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 06:23* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **3.5** | | 0.99 | 0.22 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:41 | 1 |
| **Barium** | **36** | | 20 | 0.050 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:47 | 1 |
| Cadmium | ND | | 0.50 | 0.024 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:47 | 1 |
| **Chromium** | **12** | | 0.50 | 0.084 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:47 | 1 |
| **Lead** | **50** | | 0.30 | 0.14 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:41 | 1 |
| **Selenium** | **0.60** | **B** | 0.50 | 0.21 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:41 | 1 |
| Silver | ND | | 0.50 | 0.058 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:47 | 1 |

### Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 09/07/12 11:55 | 09/09/12 22:33 | 1 |
| **Barium** | **1.0** | **B** | 0.20 | 0.00062 | mg/L | | 09/07/12 11:55 | 09/09/12 22:33 | 1 |
| **Cadmium** | **0.0039** | **J B** | 0.050 | 0.00013 | mg/L | | 09/07/12 11:55 | 09/09/12 22:33 | 1 |
| **Chromium** | **0.0054** | **J** | 0.050 | 0.00057 | mg/L | | 09/07/12 11:55 | 09/09/12 22:33 | 1 |
| **Lead** | **1.3** | | 0.050 | 0.0013 | mg/L | | 09/07/12 11:55 | 09/09/12 22:33 | 1 |
| **Selenium** | **0.012** | **J B** | 0.050 | 0.0030 | mg/L | | 09/07/12 11:55 | 09/09/12 22:33 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 09/07/12 11:55 | 09/09/12 22:33 | 1 |

### Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 09/07/12 14:22 | 09/07/12 19:00 | 1 |

### Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.037** | **J** | 0.040 | 0.013 | mg/Kg | ☼ | 09/17/12 04:04 | 09/17/12 10:15 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM** | **1600** | **B** | 210 | 29 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **20** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| **Percent Solids** | **80** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 33W**
**Date Collected: 08/28/12 10:00**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-14**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 09/07/12 14:50 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 09/07/12 14:50 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 14:50 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 14:50 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 09/07/12 14:50 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 14:50 | 1 |
| Carbon disulfide | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 14:50 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 14:50 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 14:50 | 1 |
| Chloroethane | ND | * | 5.0 | 0.75 | ug/L | | | 09/07/12 14:50 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 14:50 | 1 |
| Chloromethane | ND | * | 5.0 | 1.4 | ug/L | | | 09/07/12 14:50 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 09/07/12 14:50 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 14:50 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 09/07/12 14:50 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 09/07/12 14:50 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 09/07/12 14:50 | 1 |
| Methylene Chloride | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 14:50 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 09/07/12 14:50 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 14:50 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 14:50 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 09/07/12 14:50 | 1 |
| Vinyl chloride | ND | * | 5.0 | 1.3 | ug/L | | | 09/07/12 14:50 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 09/07/12 14:50 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | * | 5.0 | 0.35 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 09/07/12 14:50 | 1 |
| Dichlorodifluoromethane | ND | * | 5.0 | 0.64 | ug/L | | | 09/07/12 14:50 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 09/07/12 14:50 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 09/07/12 14:50 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 14:50 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 14:50 | 1 |
| Methylcyclohexane | ND | * | 5.0 | 0.56 | ug/L | | | 09/07/12 14:50 | 1 |
| Methyl tert-butyl ether | ND | * | 5.0 | 1.0 | ug/L | | | 09/07/12 14:50 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 09/07/12 14:50 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 14:50 | 1 |
| **1,2,4-Trichlorobenzene** | **2.6** | **J B *** | 5.0 | 0.38 | ug/L | | | 09/07/12 14:50 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 09/07/12 14:50 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 14:50 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 09/07/12 14:50 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 33W**
**Date Collected: 08/28/12 10:00**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-14**
**Matrix: Water**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *110* | | *62 - 123* | | *09/07/12 14:50* | *1* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* | | *09/07/12 14:50* | *1* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *75 - 120* | | *09/07/12 14:50* | *1* |
| *Dibromofluoromethane (Surr)* | *119* | | *80 - 120* | | *09/07/12 14:50* | *1* |

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **4.4** | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Acetophenone | ND | | 9.4 | 0.75 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.52 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.4 | 0.55 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.4 | 0.60 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Butyl benzyl phthalate | ND | | 9.4 | 1.3 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 4-Chloroaniline | ND | | 9.4 | 0.83 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.4 | 0.47 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Dibenzofuran | ND | | 9.4 | 0.58 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Di-n-butyl phthalate | ND | | 9.4 | 1.2 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.4 | 1.1 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Diethyl phthalate | ND | | 9.4 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Dimethyl phthalate | ND | | 9.4 | 0.72 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.4 | 0.51 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.4 | 0.75 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Di-n-octyl phthalate | ND | | 9.4 | 1.9 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| **Fluorene** | **0.87** | **J** | 1.9 | 0.20 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.17 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.4 | 0.49 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Hexachloroethane | ND | | 9.4 | 0.59 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Isophorone | ND | | 9.4 | 0.61 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| **2-Methylnaphthalene** | **2.4** | | 1.9 | 0.12 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| **Naphthalene** | **2.2** | | 1.9 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2-Nitroaniline | ND | | 47 | 3.3 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 3-Nitroaniline | ND | | 47 | 3.0 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 4-Nitroaniline | ND | | 47 | 1.6 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Nitrobenzene | ND | | 19 | 0.80 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.29 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.4 | 0.80 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 33W**
**Date Collected: 08/28/12 10:00**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-14**
**Matrix: Water**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | 0.87 | J | 1.9 | 0.40 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.4 | 0.71 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2-Chlorophenol | ND | | 9.4 | 1.6 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2-Methylphenol | ND | | 9.4 | 0.81 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2,4-Dimethylphenol | ND | | 9.4 | 0.80 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2,4-Dinitrophenol | ND | | 47 | 5.8 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 47 | 2.1 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2-Nitrophenol | ND | | 9.4 | 1.6 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 4-Nitrophenol | ND | | 47 | 6.1 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Pentachlorophenol | ND | | 9.4 | 0.63 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Phenol | ND | | 1.9 | 0.55 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.4 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.4 | 1.7 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| 1,1'-Biphenyl | ND | | 9.4 | 0.39 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Caprolactam | ND | | 47 | 11 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Benzaldehyde | ND | | 9.4 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Atrazine | ND | | 9.4 | 0.84 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.4 | 0.85 | ug/L | | 09/04/12 12:59 | 09/05/12 15:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *38* | | *37 - 104* | *09/04/12 12:59* | *09/05/12 15:37* | *1* |
| *2-Fluorobiphenyl* | *49* | | *35 - 108* | *09/04/12 12:59* | *09/05/12 15:37* | *1* |
| *Terphenyl-d14* | *57* | | *25 - 130* | *09/04/12 12:59* | *09/05/12 15:37* | *1* |
| *Phenol-d5* | *59* | | *30 - 102* | *09/04/12 12:59* | *09/05/12 15:37* | *1* |
| *2-Fluorophenol* | *61* | | *26 - 100* | *09/04/12 12:59* | *09/05/12 15:37* | *1* |
| *2,4,6-Tribromophenol* | *53* | | *33 - 122* | *09/04/12 12:59* | *09/05/12 15:37* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/11/12 17:48 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *93* | | *70 - 130* | | *09/11/12 17:48* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.7 | | 0.097 | 0.048 | mg/L | | 09/04/12 15:31 | 09/06/12 19:39 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *46* | *X* | *62 - 130* | *09/04/12 15:31* | *09/06/12 19:39* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 09/01/12 07:45 | 09/12/12 17:48 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 09/01/12 07:45 | 09/12/12 17:48 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 09/01/12 07:45 | 09/12/12 17:48 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 09/01/12 07:45 | 09/12/12 17:48 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 17:48 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 17:48 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 09/01/12 07:45 | 09/12/12 17:48 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Client Sample ID: 33W

**Lab Sample ID: 180-13966-14**

**Date Collected: 08/28/12 10:00**

**Matrix: Water**

**Date Received: 08/30/12 09:15**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| Tetrachloro-m-xylene | 81 | | 35 - 140 | 09/01/12 07:45 | 09/12/12 17:48 | 1 |
| DCB Decachlorobiphenyl (Surr) | 88 | | 35 - 140 | 09/01/12 07:45 | 09/12/12 17:48 | 1 |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 90 | | 10 | 2.7 | ug/L | | 09/04/12 09:06 | 09/05/12 16:46 | 1 |
| Barium | 190 | J | 200 | 0.62 | ug/L | | 09/04/12 09:06 | 09/05/12 16:46 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 09/04/12 09:06 | 09/05/12 16:46 | 1 |
| Chromium | 110 | | 5.0 | 0.57 | ug/L | | 09/04/12 09:06 | 09/05/12 16:46 | 1 |
| Lead | 200 | | 3.0 | 1.3 | ug/L | | 09/04/12 09:06 | 09/05/12 16:46 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 09/04/12 09:06 | 09/05/12 16:46 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 09/04/12 09:06 | 09/05/12 16:46 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.17 | J | 0.20 | 0.038 | ug/L | | 09/18/12 12:18 | 09/18/12 17:26 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 10 | 3.0 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |

## Client Sample ID: 17W@2-4'

**Lab Sample ID: 180-13966-15**

**Date Collected: 08/29/12 11:15**

**Matrix: Solid**

**Date Received: 08/30/12 09:15**

**Percent Solids: 86.9**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 23 | 5.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Benzene | ND | | 5.8 | 0.78 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Dichlorobromomethane | ND | | 5.8 | 0.65 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Bromoform | ND | | 5.8 | 0.51 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Bromomethane | ND | | 5.8 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 2-Butanone (MEK) | ND | | 5.8 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Carbon disulfide | ND | | 5.8 | 0.59 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Carbon tetrachloride | ND | * | 5.8 | 0.51 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Chlorobenzene | ND | | 5.8 | 0.87 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Chloroethane | ND | | 5.8 | 1.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Chloroform | ND | | 5.8 | 0.67 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Chloromethane | ND | | 5.8 | 0.98 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Chlorodibromomethane | ND | | 5.8 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,1-Dichloroethane | ND | | 5.8 | 0.66 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,2-Dichloroethane | ND | | 5.8 | 0.71 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,1-Dichloroethene | ND | | 5.8 | 0.98 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.5 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,2-Dichloropropane | ND | | 5.8 | 0.62 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.8 | 0.78 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.8 | 0.69 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Ethylbenzene | ND | | 5.8 | 0.74 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 2-Hexanone | ND | | 5.8 | 0.79 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Methylene Chloride | ND | | 5.8 | 0.77 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.8 | 0.75 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Styrene | ND | | 5.8 | 0.81 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 17W@2-4'**
**Date Collected: 08/29/12 11:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-15**
**Matrix: Solid**
**Percent Solids: 86.9**

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 5.8 | 0.83 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Tetrachloroethene | ND | | 5.8 | 0.78 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.8 | 0.56 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.8 | 0.96 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Trichloroethene | ND | | 5.8 | 0.76 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Vinyl chloride | ND | | 5.8 | 0.54 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Xylenes, Total | ND | | 17 | 2.6 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Cyclohexane | ND | | 5.8 | 0.43 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.8 | 0.86 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.8 | 0.99 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Dichlorodifluoromethane | ND | | 5.8 | 0.77 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.8 | 0.81 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.8 | 0.69 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Isopropylbenzene | ND | | 5.8 | 0.78 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Methyl acetate | ND | | 5.8 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Methylcyclohexane | ND | | 5.8 | 0.83 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Methyl tert-butyl ether | ND | | 5.8 | 0.86 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Trichlorofluoromethane | ND | | 5.8 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.8 | 1.2 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.8 | 0.92 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.8 | 0.75 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.8 | 0.73 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.8 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| Toluene | ND | | 5.8 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| o-Xylene | ND | | 5.8 | 0.90 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.7 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:04 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *79* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 10:04* | *1* |
| *Toluene-d8 (Surr)* | *100* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 10:04* | *1* |
| *4-Bromofluorobenzene (Surr)* | *82* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 10:04* | *1* |
| *Dibromofluoromethane (Surr)* | *88* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 10:04* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 77 | 7.3 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Acetophenone | ND | | 380 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Acenaphthylene | ND | | 77 | 8.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Anthracene | ND | | 77 | 7.5 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Benzo[a]anthracene | ND | | 77 | 9.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Benzo[a]pyrene | ND | | 77 | 7.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Benzo[b]fluoranthene | ND | | 77 | 12 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Benzo[g,h,i]perylene | ND | | 77 | 7.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Benzo[k]fluoranthene | ND | | 77 | 15 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Bis(2-chloroethyl)ether | ND | | 77 | 10 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 380 | 25 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 77 | 8.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 770 | 62 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 380 | 33 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Butyl benzyl phthalate | ND | | 380 | 52 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Carbazole | ND | | 77 | 7.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 17W@2-4'**
**Date Collected: 08/29/12 11:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-15**
**Matrix: Solid**
**Percent Solids: 86.9**

**Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4-Chloroaniline | ND | | 380 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2-Chloronaphthalene | ND | | 77 | 8.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 380 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Chrysene | ND | | 77 | 9.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Dibenz(a,h)anthracene | ND | | 77 | 8.5 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Dibenzofuran | ND | | 380 | 38 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Di-n-butyl phthalate | ND | | 380 | 48 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 380 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Diethyl phthalate | ND | | 380 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Dimethyl phthalate | ND | | 380 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2,4-Dinitrotoluene | ND | | 380 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2,6-Dinitrotoluene | ND | | 380 | 39 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Di-n-octyl phthalate | ND | | 380 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Fluoranthene | ND | | 77 | 8.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Fluorene | ND | | 77 | 10 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Hexachlorobenzene | ND | | 77 | 8.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Hexachlorobutadiene | ND | | 77 | 8.5 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Hexachlorocyclopentadiene | ND | | 380 | 41 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Hexachloroethane | ND | | 380 | 27 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 77 | 7.9 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Isophorone | ND | | 380 | 29 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2-Methylnaphthalene | ND | | 77 | 6.9 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Naphthalene | ND | | 77 | 6.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2-Nitroaniline | ND | | 1900 | 170 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 3-Nitroaniline | ND | | 1900 | 160 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 4-Nitroaniline | ND | | 1900 | 150 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Nitrobenzene | ND | | 770 | 32 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 77 | 8.9 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| N-Nitrosodiphenylamine | ND | | 380 | 35 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Phenanthrene | ND | | 77 | 12 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Pyrene | ND | | 77 | 7.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 4-Chloro-3-methylphenol | ND | | 380 | 35 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2-Chlorophenol | ND | | 380 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2-Methylphenol | ND | | 380 | 27 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2,4-Dichlorophenol | ND | | 77 | 7.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2,4-Dimethylphenol | ND | | 380 | 60 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2,4-Dinitrophenol | ND | | 1900 | 450 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1900 | 150 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2-Nitrophenol | ND | | 380 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 4-Nitrophenol | ND | | 1900 | 140 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Pentachlorophenol | ND | | 380 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Phenol | ND | | 77 | 9.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2,4,5-Trichlorophenol | ND | | 380 | 41 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 2,4,6-Trichlorophenol | ND | | 380 | 57 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| 1,1'-Biphenyl | ND | | 380 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Caprolactam | ND | | 1900 | 290 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Benzaldehyde | ND | | 380 | 57 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Atrazine | ND | | 380 | 37 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |
| Methylphenol, 3 & 4 | ND | | 380 | 37 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 19:36 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 17W@2-4'**
**Date Collected: 08/29/12 11:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-15**
**Matrix: Solid**
**Percent Solids: 86.9**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *77* | | *25 - 104* | *09/06/12 06:00* | *09/07/12 19:36* | *1* |
| *2-Fluorobiphenyl* | *78* | | *35 - 105* | *09/06/12 06:00* | *09/07/12 19:36* | *1* |
| *Terphenyl-d14* | *96* | | *25 - 127* | *09/06/12 06:00* | *09/07/12 19:36* | *1* |
| *Phenol-d5* | *82* | | *25 - 105* | *09/06/12 06:00* | *09/07/12 19:36* | *1* |
| *2-Fluorophenol* | *86* | | *39 - 103* | *09/06/12 06:00* | *09/07/12 19:36* | *1* |
| *2,4,6-Tribromophenol* | *77* | | *35 - 124* | *09/06/12 06:00* | *09/07/12 19:36* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 09/12/12 16:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *110* | | *70 - 131* | | *09/12/12 16:03* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.8 | 2.4 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 16:23 | 1 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 19 | 2.9 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:47 | 1 |
| PCB-1221 | ND | | 19 | 3.7 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:47 | 1 |
| PCB-1232 | ND | | 19 | 3.3 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:47 | 1 |
| PCB-1242 | ND | | 19 | 3.1 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:47 | 1 |
| PCB-1248 | ND | | 19 | 1.8 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:47 | 1 |
| PCB-1254 | ND | | 19 | 2.7 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:47 | 1 |
| PCB-1260 | ND | | 19 | 2.7 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 06:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *57* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 06:47* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *46* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 06:47* | *1* |

## Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **1.1** | | 1.1 | 0.24 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:46 | 1 |
| **Barium** | **35** | | 22 | 0.055 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:52 | 1 |
| **Cadmium** | **0.032** | **J** | 0.55 | 0.026 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:52 | 1 |
| **Chromium** | **8.3** | | 0.55 | 0.093 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:52 | 1 |
| **Lead** | **7.8** | | 0.33 | 0.16 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:46 | 1 |
| **Selenium** | **0.46** | **J B** | 0.55 | 0.23 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:46 | 1 |
| Silver | ND | | 0.55 | 0.064 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:52 | 1 |

## Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.026** | **J** | 0.036 | 0.012 | mg/Kg | ☼ | 09/17/12 04:04 | 09/17/12 10:22 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM** | **57** | **J B** | 190 | 26 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **13** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| **Percent Solids** | **87** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 17W**
**Date Collected: 08/29/12 11:30**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-16**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 09/07/12 16:03 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 09/07/12 16:03 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 16:03 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 16:03 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 09/07/12 16:03 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 16:03 | 1 |
| Carbon disulfide | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 16:03 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 16:03 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 16:03 | 1 |
| Chloroethane | ND | * | 5.0 | 0.75 | ug/L | | | 09/07/12 16:03 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 16:03 | 1 |
| Chloromethane | ND | * | 5.0 | 1.4 | ug/L | | | 09/07/12 16:03 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 09/07/12 16:03 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 16:03 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 09/07/12 16:03 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 09/07/12 16:03 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 09/07/12 16:03 | 1 |
| Methylene Chloride | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 16:03 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 09/07/12 16:03 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 16:03 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 16:03 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 09/07/12 16:03 | 1 |
| Vinyl chloride | ND | * | 5.0 | 1.3 | ug/L | | | 09/07/12 16:03 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 09/07/12 16:03 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | * | 5.0 | 0.35 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 09/07/12 16:03 | 1 |
| Dichlorodifluoromethane | ND | * | 5.0 | 0.64 | ug/L | | | 09/07/12 16:03 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 09/07/12 16:03 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 09/07/12 16:03 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 16:03 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 16:03 | 1 |
| Methylcyclohexane | ND | * | 5.0 | 0.56 | ug/L | | | 09/07/12 16:03 | 1 |
| Methyl tert-butyl ether | ND | * | 5.0 | 1.0 | ug/L | | | 09/07/12 16:03 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 09/07/12 16:03 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 16:03 | 1 |
| **1,2,4-Trichlorobenzene** | **0.45** | **J B *** | 5.0 | 0.38 | ug/L | | | 09/07/12 16:03 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 09/07/12 16:03 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 16:03 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 09/07/12 16:03 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 17W**
**Date Collected: 08/29/12 11:30**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-16**
**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *62 - 123* | | *09/07/12 16:03* | *1* |
| *Toluene-d8 (Surr)* | *93* | | *80 - 120* | | *09/07/12 16:03* | *1* |
| *4-Bromofluorobenzene (Surr)* | *105* | | *75 - 120* | | *09/07/12 16:03* | *1* |
| *Dibromofluoromethane (Surr)* | *115* | | *80 - 120* | | *09/07/12 16:03* | *1* |

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Acetophenone | ND | | 9.6 | 0.77 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.6 | 0.56 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | 0.61 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Butyl benzyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 4-Chloroaniline | ND | | 9.6 | 0.85 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.6 | 0.48 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Dibenzofuran | ND | | 9.6 | 0.59 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Di-n-butyl phthalate | ND | | 9.6 | 1.2 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.6 | 1.1 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Diethyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Dimethyl phthalate | ND | | 9.6 | 0.74 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | 0.52 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.6 | 0.77 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Di-n-octyl phthalate | ND | | 9.6 | 2.0 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.6 | 0.50 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Hexachloroethane | ND | | 9.6 | 0.60 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Isophorone | ND | | 9.6 | 0.62 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.4 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.7 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Nitrobenzene | ND | | 19 | 0.81 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.6 | 0.82 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 17W**
**Date Collected: 08/29/12 11:30**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-16**
**Matrix: Water**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.6 | 0.73 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2-Chlorophenol | ND | | 9.6 | 1.6 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2-Methylphenol | ND | | 9.6 | 0.83 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2,4-Dimethylphenol | ND | | 9.6 | 0.82 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.9 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2-Nitrophenol | ND | | 9.6 | 1.6 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Pentachlorophenol | ND | | 9.6 | 0.64 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.6 | 1.5 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.6 | 1.7 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| 1,1'-Biphenyl | ND | | 9.6 | 0.40 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Benzaldehyde | ND | | 9.6 | 1.4 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Atrazine | ND | | 9.6 | 0.86 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.6 | 0.87 | ug/L | | 09/05/12 09:09 | 09/06/12 15:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *69* | | *37 - 104* | *09/05/12 09:09* | *09/06/12 15:06* | *1* |
| *2-Fluorobiphenyl* | *68* | | *35 - 108* | *09/05/12 09:09* | *09/06/12 15:06* | *1* |
| *Terphenyl-d14* | *61* | | *25 - 130* | *09/05/12 09:09* | *09/06/12 15:06* | *1* |
| *Phenol-d5* | *66* | | *30 - 102* | *09/05/12 09:09* | *09/06/12 15:06* | *1* |
| *2-Fluorophenol* | *69* | | *26 - 100* | *09/05/12 09:09* | *09/06/12 15:06* | *1* |
| *2,4,6-Tribromophenol* | *69* | | *33 - 122* | *09/05/12 09:09* | *09/06/12 15:06* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/12/12 12:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *106* | | *70 - 130* | | *09/12/12 12:35* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.32** | | 0.097 | 0.049 | mg/L | | 09/04/12 15:31 | 09/06/12 19:53 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *43* | *X* | *62 - 130* | *09/04/12 15:31* | *09/06/12 19:53* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 09/01/12 07:45 | 09/12/12 18:12 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 09/01/12 07:45 | 09/12/12 18:12 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 09/01/12 07:45 | 09/12/12 18:12 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 09/01/12 07:45 | 09/12/12 18:12 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 18:12 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 18:12 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 09/01/12 07:45 | 09/12/12 18:12 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Client Sample ID: 17W

**Date Collected: 08/29/12 11:30**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-16

**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *76* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 18:12* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *86* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 18:12* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **73** | | 10 | 2.7 | ug/L | | 09/04/12 09:06 | 09/05/12 16:51 | 1 |
| **Barium** | **690** | | 200 | 0.62 | ug/L | | 09/04/12 09:06 | 09/05/12 16:51 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 09/04/12 09:06 | 09/05/12 16:51 | 1 |
| **Chromium** | **230** | | 5.0 | 0.57 | ug/L | | 09/04/12 09:06 | 09/05/12 16:51 | 1 |
| **Lead** | **160** | | 3.0 | 1.3 | ug/L | | 09/04/12 09:06 | 09/05/12 16:51 | 1 |
| **Selenium** | **4.3** | **J** | 5.0 | 3.0 | ug/L | | 09/04/12 09:06 | 09/05/12 16:51 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 09/04/12 09:06 | 09/05/12 16:51 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.69** | | 0.20 | 0.038 | ug/L | | 09/18/12 12:18 | 09/18/12 17:28 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.7 | 1.7 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |

## Client Sample ID: 19W@2-4'

**Date Collected: 08/29/12 10:15**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-17

**Matrix: Solid**
**Percent Solids: 86.1**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 23 | 5.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Benzene | ND | | 5.8 | 0.78 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Dichlorobromomethane | ND | | 5.8 | 0.65 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Bromoform | ND | | 5.8 | 0.51 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Bromomethane | ND | | 5.8 | 0.86 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 2-Butanone (MEK) | ND | | 5.8 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Carbon disulfide | ND | | 5.8 | 0.59 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Carbon tetrachloride | ND | * | 5.8 | 0.52 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Chlorobenzene | ND | | 5.8 | 0.88 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Chloroethane | ND | | 5.8 | 1.8 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Chloroform | ND | | 5.8 | 0.68 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Chloromethane | ND | | 5.8 | 0.99 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Chlorodibromomethane | ND | | 5.8 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,1-Dichloroethane | ND | | 5.8 | 0.67 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,2-Dichloroethane | ND | | 5.8 | 0.71 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,1-Dichloroethene | ND | | 5.8 | 0.99 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,2-Dichloroethene, Total | ND | | 12 | 1.5 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,2-Dichloropropane | ND | | 5.8 | 0.63 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.8 | 0.79 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.8 | 0.69 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Ethylbenzene | ND | | 5.8 | 0.75 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 2-Hexanone | ND | | 5.8 | 0.80 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Methylene Chloride | ND | | 5.8 | 0.78 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.8 | 0.76 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Styrene | ND | | 5.8 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 19W@2-4'**
**Date Collected: 08/29/12 10:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-17**
**Matrix: Solid**
**Percent Solids: 86.1**

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ND | | 5.8 | 0.83 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Tetrachloroethene | ND | | 5.8 | 0.79 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.8 | 0.57 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.8 | 0.97 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Trichloroethene | ND | | 5.8 | 0.76 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Vinyl chloride | ND | | 5.8 | 0.55 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Xylenes, Total | ND | | 17 | 2.6 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Cyclohexane | ND | | 5.8 | 0.43 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.8 | 0.87 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.8 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Dichlorodifluoromethane | ND | | 5.8 | 0.77 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.8 | 0.82 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.8 | 0.69 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Isopropylbenzene | ND | | 5.8 | 0.79 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Methyl acetate | ND | | 5.8 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Methylcyclohexane | ND | | 5.8 | 0.84 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Methyl tert-butyl ether | ND | | 5.8 | 0.87 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Trichlorofluoromethane | ND | | 5.8 | 1.1 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.8 | 1.2 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.8 | 0.93 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.8 | 0.76 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.8 | 0.74 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.8 | 1.0 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| Toluene | ND | | 5.8 | 0.85 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| o-Xylene | ND | | 5.8 | 0.91 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |
| m-Xylene & p-Xylene | ND | | 12 | 1.7 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *80* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 10:25* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 10:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *80* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 10:25* | *1* |
| *Dibromofluoromethane (Surr)* | *90* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 10:25* | *1* |

### Method: 8260B - Volatile Organic Compounds by GC/MS - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | | 0.20 | 0.043 | mg/L | | | 09/07/12 17:28 | 40 |
| 1,2-Dichloroethane | ND | | 0.20 | 0.038 | mg/L | | | 09/07/12 17:28 | 40 |
| 2-Butanone (MEK) | ND | | 0.20 | 0.043 | mg/L | | | 09/07/12 17:28 | 40 |
| Benzene | ND | | 0.20 | 0.040 | mg/L | | | 09/07/12 17:28 | 40 |
| Carbon tetrachloride | ND | | 0.20 | 0.043 | mg/L | | | 09/07/12 17:28 | 40 |
| Chlorobenzene | ND | | 0.20 | 0.021 | mg/L | | | 09/07/12 17:28 | 40 |
| Chloroform | ND | | 0.20 | 0.040 | mg/L | | | 09/07/12 17:28 | 40 |
| Tetrachloroethene | ND | | 0.20 | 0.033 | mg/L | | | 09/07/12 17:28 | 40 |
| Trichloroethene | ND | | 0.20 | 0.032 | mg/L | | | 09/07/12 17:28 | 40 |
| Vinyl chloride | ND | | 0.20 | 0.052 | mg/L | | | 09/07/12 17:28 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* | | *09/07/12 17:28* | *40* |
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *62 - 123* | | *09/07/12 17:28* | *40* |
| *4-Bromofluorobenzene (Surr)* | *90* | | *75 - 120* | | *09/07/12 17:28* | *40* |
| *Dibromofluoromethane (Surr)* | *109* | | *80 - 120* | | *09/07/12 17:28* | *40* |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 19W@2-4'**
**Date Collected: 08/29/12 10:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-17**
**Matrix: Solid**

### Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| Pyridine | ND | * | 0.10 | 0.00083 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 09/07/12 15:15 | 09/10/12 11:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *93* | | *19 - 138* | *09/07/12 15:15* | *09/10/12 11:06* | *1* |
| *2-Fluorobiphenyl* | *87* | | *35 - 115* | *09/07/12 15:15* | *09/10/12 11:06* | *1* |
| *2-Fluorophenol* | *110* | | *20 - 110* | *09/07/12 15:15* | *09/10/12 11:06* | *1* |
| *Nitrobenzene-d5* | *96* | | *39 - 115* | *09/07/12 15:15* | *09/10/12 11:06* | *1* |
| *Phenol-d5* | *109* | | *30 - 118* | *09/07/12 15:15* | *09/10/12 11:06* | *1* |
| *Terphenyl-d14* | *113* | | *30 - 143* | *09/07/12 15:15* | *09/10/12 11:06* | *1* |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 77 | 7.3 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Acetophenone | ND | | 380 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Acenaphthylene | ND | | 77 | 8.8 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Anthracene | ND | | 77 | 7.5 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Benzo[a]anthracene | ND | | 77 | 9.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Benzo[a]pyrene | ND | | 77 | 7.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Benzo[b]fluoranthene | ND | | 77 | 12 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Benzo[g,h,i]perylene | ND | | 77 | 7.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Benzo[k]fluoranthene | ND | | 77 | 15 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Bis(2-chloroethyl)ether | ND | | 77 | 10 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 380 | 25 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 77 | 8.3 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 770 | 62 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 380 | 33 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Butyl benzyl phthalate | ND | | 380 | 52 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Carbazole | ND | | 77 | 7.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 4-Chloroaniline | ND | | 380 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2-Chloronaphthalene | ND | | 77 | 8.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 380 | 43 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Chrysene | ND | | 77 | 9.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Dibenz(a,h)anthracene | ND | | 77 | 8.5 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Dibenzofuran | ND | | 380 | 38 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Di-n-butyl phthalate | ND | | 380 | 48 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 380 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Diethyl phthalate | ND | | 380 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Dimethyl phthalate | ND | | 380 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2,4-Dinitrotoluene | ND | | 380 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2,6-Dinitrotoluene | ND | | 380 | 39 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 19W@2-4'**
**Date Collected: 08/29/12 10:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-17**
**Matrix: Solid**
**Percent Solids: 86.1**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Di-n-octyl phthalate | ND | | 380 | 40 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Fluoranthene | ND | | 77 | 8.2 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Fluorene | ND | | 77 | 10 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Hexachlorobenzene | ND | | 77 | 8.1 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Hexachlorobutadiene | ND | | 77 | 8.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Hexachlorocyclopentadiene | ND | | 380 | 41 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Hexachloroethane | ND | | 380 | 27 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 77 | 7.9 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Isophorone | ND | | 380 | 29 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2-Methylnaphthalene | ND | | 77 | 6.9 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Naphthalene | ND | | 77 | 6.6 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2-Nitroaniline | ND | | 1900 | 170 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 3-Nitroaniline | ND | | 1900 | 160 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 4-Nitroaniline | ND | | 1900 | 150 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Nitrobenzene | ND | | 770 | 32 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 77 | 9.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| N-Nitrosodiphenylamine | ND | | 380 | 35 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Phenanthrene | ND | | 77 | 12 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Pyrene | ND | | 77 | 7.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 4-Chloro-3-methylphenol | ND | | 380 | 35 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2-Chlorophenol | ND | | 380 | 31 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2-Methylphenol | ND | | 380 | 27 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2,4-Dichlorophenol | ND | | 77 | 7.7 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2,4-Dimethylphenol | ND | | 380 | 60 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2,4-Dinitrophenol | ND | | 1900 | 460 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1900 | 150 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2-Nitrophenol | ND | | 380 | 42 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 4-Nitrophenol | ND | | 1900 | 140 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Pentachlorophenol | ND | | 380 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Phenol | ND | | 77 | 9.0 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2,4,5-Trichlorophenol | ND | | 380 | 41 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 2,4,6-Trichlorophenol | ND | | 380 | 57 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| 1,1'-Biphenyl | ND | | 380 | 34 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Caprolactam | ND | | 1900 | 290 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Benzaldehyde | ND | | 380 | 57 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Atrazine | ND | | 380 | 37 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |
| Methylphenol, 3 & 4 | ND | | 380 | 37 | ug/Kg | ☼ | 09/06/12 06:00 | 09/07/12 20:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *70* | | *25 - 104* | *09/06/12 06:00* | *09/07/12 20:02* | *1* |
| *2-Fluorobiphenyl* | *67* | | *35 - 105* | *09/06/12 06:00* | *09/07/12 20:02* | *1* |
| *Terphenyl-d14* | *87* | | *25 - 127* | *09/06/12 06:00* | *09/07/12 20:02* | *1* |
| *Phenol-d5* | *71* | | *25 - 105* | *09/06/12 06:00* | *09/07/12 20:02* | *1* |
| *2-Fluorophenol* | *74* | | *39 - 103* | *09/06/12 06:00* | *09/07/12 20:02* | *1* |
| *2,4,6-Tribromophenol* | *70* | | *35 - 124* | *09/06/12 06:00* | *09/07/12 20:02* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 09/12/12 16:23 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 19W@2-4'**
**Date Collected: 08/29/12 10:15**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-17**
**Matrix: Solid**
**Percent Solids: 86.1**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *106* | | *70 - 131* | | *09/12/12 16:23* | *1* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.8 | 2.4 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 16:09 | 1 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 19 | 2.9 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 07:11 | 1 |
| PCB-1221 | ND | | 19 | 3.7 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 07:11 | 1 |
| PCB-1232 | ND | | 19 | 3.3 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 07:11 | 1 |
| PCB-1242 | ND | | 19 | 3.1 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 07:11 | 1 |
| PCB-1248 | ND | | 19 | 1.8 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 07:11 | 1 |
| PCB-1254 | ND | | 19 | 2.7 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 07:11 | 1 |
| PCB-1260 | ND | | 19 | 2.7 | ug/Kg | ☼ | 09/06/12 05:45 | 09/08/12 07:11 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *75* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 07:11* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *53* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 07:11* | *1* |

## Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.3** | | 0.99 | 0.22 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:51 | 1 |
| **Barium** | **57** | | 20 | 0.050 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:57 | 1 |
| **Cadmium** | **0.031** | **J** | 0.50 | 0.024 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:57 | 1 |
| **Chromium** | **16** | | 0.50 | 0.084 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:57 | 1 |
| **Lead** | **10** | | 0.30 | 0.14 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:51 | 1 |
| **Selenium** | **0.74** | **B** | 0.50 | 0.21 | mg/Kg | ☼ | 09/10/12 10:21 | 09/12/12 19:51 | 1 |
| Silver | ND | | 0.50 | 0.058 | mg/Kg | ☼ | 09/10/12 10:21 | 09/11/12 23:57 | 1 |

## Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.020** | **J** | 0.050 | 0.0027 | mg/L | | 09/07/12 11:55 | 09/09/12 22:49 | 1 |
| **Barium** | **0.28** | **B** | 0.20 | 0.00062 | mg/L | | 09/07/12 11:55 | 09/09/12 22:49 | 1 |
| **Cadmium** | **0.00030** | **J B** | 0.050 | 0.00013 | mg/L | | 09/07/12 11:55 | 09/09/12 22:49 | 1 |
| **Chromium** | **0.0041** | **J** | 0.050 | 0.00057 | mg/L | | 09/07/12 11:55 | 09/09/12 22:49 | 1 |
| **Lead** | **0.030** | **J** | 0.050 | 0.0013 | mg/L | | 09/07/12 11:55 | 09/09/12 22:49 | 1 |
| **Selenium** | **0.012** | **J B** | 0.050 | 0.0030 | mg/L | | 09/07/12 11:55 | 09/09/12 22:49 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 09/07/12 11:55 | 09/09/12 22:49 | 1 |

## Method: 7471A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.029** | **J** | 0.035 | 0.012 | mg/Kg | ☼ | 09/17/12 04:04 | 09/17/12 10:27 | 1 |

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **HEM** | **46** | **J B** | 190 | 27 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **14** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| **Percent Solids** | **86** | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 19W**
**Date Collected: 08/29/12 10:30**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-18**
**Matrix: Water**

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 09/07/12 16:28 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 09/07/12 16:28 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 16:28 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 16:28 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 09/07/12 16:28 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 16:28 | 1 |
| Carbon disulfide | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 16:28 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 16:28 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 16:28 | 1 |
| Chloroethane | ND | * | 5.0 | 0.75 | ug/L | | | 09/07/12 16:28 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 16:28 | 1 |
| Chloromethane | ND | * | 5.0 | 1.4 | ug/L | | | 09/07/12 16:28 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 09/07/12 16:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 16:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 09/07/12 16:28 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 09/07/12 16:28 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 09/07/12 16:28 | 1 |
| Methylene Chloride | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 16:28 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 09/07/12 16:28 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 16:28 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 16:28 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 09/07/12 16:28 | 1 |
| Vinyl chloride | ND | * | 5.0 | 1.3 | ug/L | | | 09/07/12 16:28 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 09/07/12 16:28 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | * | 5.0 | 0.35 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 09/07/12 16:28 | 1 |
| Dichlorodifluoromethane | ND | * | 5.0 | 0.64 | ug/L | | | 09/07/12 16:28 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 09/07/12 16:28 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 09/07/12 16:28 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 16:28 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 16:28 | 1 |
| Methylcyclohexane | ND | * | 5.0 | 0.56 | ug/L | | | 09/07/12 16:28 | 1 |
| Methyl tert-butyl ether | ND | * | 5.0 | 1.0 | ug/L | | | 09/07/12 16:28 | 1 |
| Trichlorofluoromethane | ND | * | 5.0 | 1.1 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 16:28 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 5.0 | 0.38 | ug/L | | | 09/07/12 16:28 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 09/07/12 16:28 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 16:28 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 09/07/12 16:28 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 19W**
**Date Collected: 08/29/12 10:30**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-18**
**Matrix: Water**

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 62 - 123 | | 09/07/12 16:28 | 1 |
| Toluene-d8 (Surr) | 94 | | 80 - 120 | | 09/07/12 16:28 | 1 |
| 4-Bromofluorobenzene (Surr) | 104 | | 75 - 120 | | 09/07/12 16:28 | 1 |
| Dibromofluoromethane (Surr) | 118 | | 80 - 120 | | 09/07/12 16:28 | 1 |

**Method: 8270C - Semivolatile Organic Compounds (GC/MS)**

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1.9 | 0.14 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Acetophenone | ND | | 9.6 | 0.77 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Acenaphthylene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Benzo[a]anthracene | ND | | 1.9 | 0.14 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Benzo[a]pyrene | ND | | 1.9 | 0.13 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Benzo[b]fluoranthene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Benzo[g,h,i]perylene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Benzo[k]fluoranthene | ND | | 1.9 | 0.53 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Bis(2-chloroethyl)ether | ND | | 1.9 | 0.24 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 9.6 | 0.56 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 1.9 | 0.19 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 19 | 12 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 9.6 | 0.61 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Butyl benzyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Carbazole | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 4-Chloroaniline | ND | | 9.6 | 0.85 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2-Chloronaphthalene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 9.6 | 0.48 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Chrysene | ND | | 1.9 | 0.13 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Dibenz(a,h)anthracene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Dibenzofuran | ND | | 9.6 | 0.59 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Di-n-butyl phthalate | ND | | 9.6 | 1.2 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 9.6 | 1.1 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Diethyl phthalate | ND | | 9.6 | 1.4 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Dimethyl phthalate | ND | | 9.6 | 0.74 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2,4-Dinitrotoluene | ND | | 9.6 | 0.52 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2,6-Dinitrotoluene | ND | | 9.6 | 0.77 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Di-n-octyl phthalate | ND | | 9.6 | 2.0 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Fluoranthene | ND | | 1.9 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Fluorene | ND | | 1.9 | 0.21 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Hexachlorobenzene | ND | | 1.9 | 0.18 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Hexachlorobutadiene | ND | | 1.9 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Hexachlorocyclopentadiene | ND | | 9.6 | 0.50 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Hexachloroethane | ND | | 9.6 | 0.60 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 1.9 | 0.19 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Isophorone | ND | | 9.6 | 0.62 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2-Methylnaphthalene | ND | | 1.9 | 0.12 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Naphthalene | ND | | 1.9 | 0.13 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2-Nitroaniline | ND | | 48 | 3.4 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 3-Nitroaniline | ND | | 48 | 3.1 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 4-Nitroaniline | ND | | 48 | 1.7 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Nitrobenzene | ND | | 19 | 0.81 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 1.9 | 0.30 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| N-Nitrosodiphenylamine | ND | | 9.6 | 0.82 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 19W**
**Date Collected: 08/29/12 10:30**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-18**
**Matrix: Water**

### Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | ND | | 1.9 | 0.41 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Pyrene | ND | | 1.9 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 4-Chloro-3-methylphenol | ND | | 9.6 | 0.73 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2-Chlorophenol | ND | | 9.6 | 1.6 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2-Methylphenol | ND | | 9.6 | 0.83 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2,4-Dichlorophenol | ND | | 1.9 | 0.32 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2,4-Dimethylphenol | ND | | 9.6 | 0.82 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2,4-Dinitrophenol | ND | | 48 | 5.9 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 48 | 2.1 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2-Nitrophenol | ND | | 9.6 | 1.6 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 4-Nitrophenol | ND | | 48 | 6.2 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Pentachlorophenol | ND | | 9.6 | 0.64 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Phenol | ND | | 1.9 | 0.56 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2,4,5-Trichlorophenol | ND | | 9.6 | 1.5 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 2,4,6-Trichlorophenol | ND | | 9.6 | 1.7 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| 1,1'-Biphenyl | ND | | 9.6 | 0.40 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Caprolactam | ND | | 48 | 11 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Benzaldehyde | ND | | 9.6 | 1.4 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Atrazine | ND | | 9.6 | 0.86 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |
| Methylphenol, 3 & 4 | ND | | 9.6 | 0.87 | ug/L | | 09/05/12 09:09 | 09/06/12 15:29 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *66* | | *37 - 104* | *09/05/12 09:09* | *09/06/12 15:29* | *1* |
| *2-Fluorobiphenyl* | *62* | | *35 - 108* | *09/05/12 09:09* | *09/06/12 15:29* | *1* |
| *Terphenyl-d14* | *61* | | *25 - 130* | *09/05/12 09:09* | *09/06/12 15:29* | *1* |
| *Phenol-d5* | *65* | | *30 - 102* | *09/05/12 09:09* | *09/06/12 15:29* | *1* |
| *2-Fluorophenol* | *63* | | *26 - 100* | *09/05/12 09:09* | *09/06/12 15:29* | *1* |
| *2,4,6-Tribromophenol* | *70* | | *33 - 122* | *09/05/12 09:09* | *09/06/12 15:29* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/12/12 13:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *94* | | *70 - 130* | | *09/12/12 13:01* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **0.20** | | 0.099 | 0.050 | mg/L | | 09/04/12 15:31 | 09/06/12 20:07 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *64* | | *62 - 130* | *09/04/12 15:31* | *09/06/12 20:07* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.38 | 0.095 | ug/L | | 09/01/12 07:45 | 09/12/12 18:36 | 1 |
| PCB-1221 | ND | | 0.38 | 0.094 | ug/L | | 09/01/12 07:45 | 09/12/12 18:36 | 1 |
| PCB-1232 | ND | | 0.38 | 0.11 | ug/L | | 09/01/12 07:45 | 09/12/12 18:36 | 1 |
| PCB-1242 | ND | | 0.38 | 0.070 | ug/L | | 09/01/12 07:45 | 09/12/12 18:36 | 1 |
| PCB-1248 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 18:36 | 1 |
| PCB-1254 | ND | | 0.38 | 0.086 | ug/L | | 09/01/12 07:45 | 09/12/12 18:36 | 1 |
| PCB-1260 | ND | | 0.38 | 0.051 | ug/L | | 09/01/12 07:45 | 09/12/12 18:36 | 1 |

## Client Sample ID: 19W

**Date Collected: 08/29/12 10:30**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-18

**Matrix: Water**

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *76* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 18:36* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *86* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 18:36* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **760** | | 10 | 2.7 | ug/L | | 09/04/12 09:06 | 09/05/12 16:56 | 1 |
| **Barium** | **450** | | 200 | 0.62 | ug/L | | 09/04/12 09:06 | 09/05/12 16:56 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 09/04/12 09:06 | 09/05/12 16:56 | 1 |
| **Chromium** | **260** | | 5.0 | 0.57 | ug/L | | 09/04/12 09:06 | 09/05/12 16:56 | 1 |
| **Lead** | **140** | | 3.0 | 1.3 | ug/L | | 09/04/12 09:06 | 09/05/12 16:56 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 09/04/12 09:06 | 09/05/12 16:56 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 09/04/12 09:06 | 09/05/12 16:56 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.41** | | 0.20 | 0.038 | ug/L | | 09/18/12 12:18 | 09/18/12 17:30 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 6.7 | 2.0 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |

## Client Sample ID: 20@2-4'

**Date Collected: 08/29/12 09:50**
**Date Received: 08/30/12 09:15**

## Lab Sample ID: 180-13966-19

**Matrix: Solid**
**Percent Solids: 84.8**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 5.9 | 0.80 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:47 | 1 |
| Toluene | ND | | 5.9 | 0.86 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:47 | 1 |
| Ethylbenzene | ND | | 5.9 | 0.76 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:47 | 1 |
| Xylenes, Total | ND | | 18 | 2.6 | ug/Kg | ☼ | 09/05/12 03:18 | 09/05/12 10:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *85* | | *52 - 124* | *09/05/12 03:18* | *09/05/12 10:47* | *1* |
| *Toluene-d8 (Surr)* | *104* | | *72 - 127* | *09/05/12 03:18* | *09/05/12 10:47* | *1* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *63 - 120* | *09/05/12 03:18* | *09/05/12 10:47* | *1* |
| *Dibromofluoromethane (Surr)* | *95* | | *68 - 121* | *09/05/12 03:18* | *09/05/12 10:47* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.29 | 0.022 | mg/Kg | ☼ | | 09/12/12 16:42 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *106* | | *70 - 131* | | *09/12/12 16:42* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.9 | 2.5 | mg/Kg | ☼ | 09/04/12 14:31 | 09/06/12 15:55 | 1 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.3 | mg/Kg | ☼ | 09/17/12 02:00 | 09/17/12 14:30 | 1 |
| **HEM** | **67** | **J B** | 200 | 27 | mg/Kg | ☼ | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

# Client Sample Results

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

**Client Sample ID: 20@2-4'**
**Date Collected: 08/29/12 09:50**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-19**
**Matrix: Solid**

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 15 | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |
| Percent Solids | 85 | | 0.10 | 0.10 | % | | | 09/04/12 09:19 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-47095/3**
**Matrix: Water**
**Analysis Batch: 47095**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 09/01/12 13:08 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 09/01/12 13:08 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 09/01/12 13:08 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 09/01/12 13:08 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *107* | | *64 - 135* | | *09/01/12 13:08* | *1* |
| *Toluene-d8 (Surr)* | *105* | | *71 - 118* | | *09/01/12 13:08* | *1* |
| *4-Bromofluorobenzene (Surr)* | *94* | | *70 - 118* | | *09/01/12 13:08* | *1* |
| *Dibromofluoromethane (Surr)* | *107* | | *70 - 128* | | *09/01/12 13:08* | *1* |

**Lab Sample ID: LCS 180-47095/4**
**Matrix: Water**
**Analysis Batch: 47095**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 10.0 | 10.2 | | ug/L | | 102 | 80 - 120 | | |
| Ethylbenzene | | | 10.0 | 10.4 | | ug/L | | 104 | 72 - 126 | | |
| Toluene | | | 10.0 | 11.3 | | ug/L | | 113 | 80 - 123 | | |
| Xylenes, Total | | | 30.0 | 30.9 | | ug/L | | 103 | 76 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *107* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *89* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *104* | | *70 - 128* |

**Lab Sample ID: LCSD 180-47095/5**
**Matrix: Water**
**Analysis Batch: 47095**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 10.0 | 10.8 | | ug/L | | 108 | 80 - 120 | 5 | 32 |
| Ethylbenzene | | | 10.0 | 11.2 | | ug/L | | 112 | 72 - 126 | 8 | 33 |
| Toluene | | | 10.0 | 11.7 | | ug/L | | 117 | 80 - 123 | 4 | 35 |
| Xylenes, Total | | | 30.0 | 33.3 | | ug/L | | 111 | 76 - 128 | 7 | 32 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *108* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *107* | | *70 - 128* |

**Lab Sample ID: MB 180-47265/1-A**
**Matrix: Solid**
**Analysis Batch: 47275**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47265**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-47265/1-A**
**Matrix: Solid**
**Analysis Batch: 47275**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47265**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Dichlorobromomethane | ND | | 5.0 | 0.56 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Benzene | ND | | 5.0 | 0.68 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Bromoform | ND | | 5.0 | 0.44 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Bromomethane | ND | | 5.0 | 0.74 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 0.88 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Carbon disulfide | ND | | 5.0 | 0.51 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 0.45 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.76 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Chloroethane | ND | | 5.0 | 1.5 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Chloroform | ND | | 5.0 | 0.58 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Chloromethane | ND | | 5.0 | 0.85 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.71 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | 0.58 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.61 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 0.85 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 1.3 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 0.54 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.68 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.60 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.64 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.69 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Methylene Chloride | ND | | 5.0 | 0.67 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.65 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Styrene | ND | | 5.0 | 0.71 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.72 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.68 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 0.49 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 0.83 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Trichloroethene | ND | | 5.0 | 0.66 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Vinyl chloride | ND | | 5.0 | 0.47 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Xylenes, Total | ND | | 15 | 2.2 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Cyclohexane | ND | | 5.0 | 0.37 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.75 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.86 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.67 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.70 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.60 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.68 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Methyl acetate | ND | | 5.0 | 0.90 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.73 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.75 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 0.92 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.1 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.80 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.66 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.64 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 0.88 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Toluene | ND | | 5.0 | 0.73 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| o-Xylene | ND | | 5.0 | 0.78 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.5 | ug/Kg | | 09/05/12 03:18 | 09/05/12 05:58 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-47265/1-A**
**Matrix: Solid**
**Analysis Batch: 47275**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47265**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 52 - 124 | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Toluene-d8 (Surr) | 100 | | 72 - 127 | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| 4-Bromofluorobenzene (Surr) | 90 | | 63 - 120 | 09/05/12 03:18 | 09/05/12 05:58 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 68 - 121 | 09/05/12 03:18 | 09/05/12 05:58 | 1 |

**Lab Sample ID: LCS 180-47265/2-A**
**Matrix: Solid**
**Analysis Batch: 47275**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47265**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 27.7 | | ug/Kg | | 69 | 20 - 150 |
| Dichlorobromomethane | 40.0 | 38.2 | | ug/Kg | | 95 | 70 - 125 |
| Benzene | 40.0 | 34.0 | | ug/Kg | | 85 | 77 - 120 |
| Bromoform | 40.0 | 40.7 | | ug/Kg | | 102 | 53 - 140 |
| Bromomethane | 40.0 | 41.7 | | ug/Kg | | 104 | 25 - 150 |
| 2-Butanone (MEK) | 40.0 | 26.5 | | ug/Kg | | 66 | 35 - 149 |
| Carbon disulfide | 40.0 | 33.9 | | ug/Kg | | 85 | 50 - 127 |
| Carbon tetrachloride | 40.0 | 48.5 | | ug/Kg | | 121 | 69 - 122 |
| Chlorobenzene | 40.0 | 35.2 | | ug/Kg | | 88 | 79 - 120 |
| Chloroethane | 40.0 | 46.7 | | ug/Kg | | 117 | 22 - 150 |
| Chloroform | 40.0 | 35.4 | | ug/Kg | | 88 | 72 - 120 |
| Chloromethane | 40.0 | 28.4 | | ug/Kg | | 71 | 44 - 131 |
| Chlorodibromomethane | 40.0 | 42.6 | | ug/Kg | | 107 | 70 - 132 |
| 1,1-Dichloroethane | 40.0 | 33.4 | | ug/Kg | | 83 | 66 - 124 |
| 1,2-Dichloroethane | 40.0 | 34.4 | | ug/Kg | | 86 | 61 - 127 |
| 1,1-Dichloroethene | 40.0 | 34.6 | | ug/Kg | | 87 | 59 - 129 |
| 1,2-Dichloropropane | 40.0 | 33.0 | | ug/Kg | | 82 | 72 - 122 |
| cis-1,3-Dichloropropene | 40.0 | 38.1 | | ug/Kg | | 95 | 73 - 120 |
| trans-1,3-Dichloropropene | 40.0 | 41.9 | | ug/Kg | | 105 | 74 - 129 |
| Ethylbenzene | 40.0 | 37.1 | | ug/Kg | | 93 | 78 - 125 |
| 2-Hexanone | 40.0 | 29.9 | | ug/Kg | | 75 | 32 - 150 |
| Methylene Chloride | 40.0 | 29.4 | | ug/Kg | | 74 | 58 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 26.2 | | ug/Kg | | 66 | 44 - 148 |
| Styrene | 40.0 | 34.4 | | ug/Kg | | 86 | 83 - 129 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 28.7 | | ug/Kg | | 72 | 60 - 139 |
| Tetrachloroethene | 40.0 | 38.9 | | ug/Kg | | 97 | 78 - 129 |
| 1,1,1-Trichloroethane | 40.0 | 44.5 | | ug/Kg | | 111 | 67 - 126 |
| 1,1,2-Trichloroethane | 40.0 | 32.9 | | ug/Kg | | 82 | 70 - 128 |
| Trichloroethene | 40.0 | 37.9 | | ug/Kg | | 95 | 76 - 119 |
| Vinyl chloride | 40.0 | 31.0 | | ug/Kg | | 78 | 63 - 124 |
| Xylenes, Total | 120 | 110 | | ug/Kg | | 92 | 83 - 126 |
| Cyclohexane | 40.0 | 31.3 | | ug/Kg | | 78 | 64 - 130 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 38.2 | | ug/Kg | | 95 | 35 - 136 |
| 1,2-Dibromoethane (EDB) | 40.0 | 35.5 | | ug/Kg | | 89 | 70 - 131 |
| Dichlorodifluoromethane | 40.0 | 34.0 | | ug/Kg | | 85 | 25 - 150 |
| cis-1,2-Dichloroethene | 40.0 | 33.0 | | ug/Kg | | 82 | 80 - 118 |
| trans-1,2-Dichloroethene | 40.0 | 34.9 | | ug/Kg | | 87 | 77 - 121 |
| Isopropylbenzene | 40.0 | 36.2 | | ug/Kg | | 91 | 70 - 133 |
| Methyl acetate | 40.0 | 24.6 | | ug/Kg | | 62 | 27 - 142 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-47265/2-A**
**Matrix: Solid**
**Analysis Batch: 47275**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47265**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Methylcyclohexane | | | 40.0 | 33.4 | | ug/Kg | | 84 | 66 - 135 | | |
| Methyl tert-butyl ether | | | 40.0 | 35.3 | | ug/Kg | | 88 | 48 - 132 | | |
| Trichlorofluoromethane | | | 40.0 | 42.8 | | ug/Kg | | 107 | 20 - 150 | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 40.0 | 34.4 | | ug/Kg | | 86 | 55 - 130 | | |
| 1,2-Dichlorobenzene | | | 40.0 | 33.0 | | ug/Kg | | 82 | 71 - 124 | | |
| 1,3-Dichlorobenzene | | | 40.0 | 33.9 | | ug/Kg | | 85 | 75 - 118 | | |
| 1,4-Dichlorobenzene | | | 40.0 | 33.9 | | ug/Kg | | 85 | 77 - 116 | | |
| 1,2,4-Trichlorobenzene | | | 40.0 | 25.8 | | ug/Kg | | 64 | 51 - 136 | | |
| Toluene | | | 40.0 | 35.7 | | ug/Kg | | 89 | 78 - 124 | | |
| o-Xylene | | | 40.0 | 35.0 | | ug/Kg | | 87 | 83 - 127 | | |
| m-Xylene & p-Xylene | | | 80.0 | 75.3 | | ug/Kg | | 94 | 75 - 126 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *100* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *85* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *68 - 121* |

**Lab Sample ID: LCSD 180-47265/3-A**
**Matrix: Solid**
**Analysis Batch: 47275**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47265**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | | | 40.0 | 28.9 | | ug/Kg | | 72 | 20 - 150 | 4 | 40 |
| Dichlorobromomethane | | | 40.0 | 40.3 | | ug/Kg | | 101 | 70 - 125 | 5 | 21 |
| Benzene | | | 40.0 | 34.8 | | ug/Kg | | 87 | 77 - 120 | 2 | 20 |
| Bromoform | | | 40.0 | 41.6 | | ug/Kg | | 104 | 53 - 140 | 2 | 23 |
| Bromomethane | | | 40.0 | 44.2 | | ug/Kg | | 110 | 25 - 150 | 6 | 40 |
| 2-Butanone (MEK) | | | 40.0 | 29.4 | | ug/Kg | | 73 | 35 - 149 | 10 | 36 |
| Carbon disulfide | | | 40.0 | 35.3 | | ug/Kg | | 88 | 50 - 127 | 4 | 23 |
| Carbon tetrachloride | | | 40.0 | 50.8 | * | ug/Kg | | 127 | 69 - 122 | 5 | 22 |
| Chlorobenzene | | | 40.0 | 38.2 | | ug/Kg | | 95 | 79 - 120 | 8 | 20 |
| Chloroethane | | | 40.0 | 42.1 | | ug/Kg | | 105 | 22 - 150 | 10 | 40 |
| Chloroform | | | 40.0 | 37.2 | | ug/Kg | | 93 | 72 - 120 | 5 | 25 |
| Chloromethane | | | 40.0 | 31.0 | | ug/Kg | | 78 | 44 - 131 | 9 | 27 |
| Chlorodibromomethane | | | 40.0 | 41.1 | | ug/Kg | | 103 | 70 - 132 | 4 | 20 |
| 1,1-Dichloroethane | | | 40.0 | 34.7 | | ug/Kg | | 87 | 66 - 124 | 4 | 23 |
| 1,2-Dichloroethane | | | 40.0 | 35.8 | | ug/Kg | | 89 | 61 - 127 | 4 | 23 |
| 1,1-Dichloroethene | | | 40.0 | 36.6 | | ug/Kg | | 91 | 59 - 129 | 5 | 25 |
| 1,2-Dichloropropane | | | 40.0 | 31.4 | | ug/Kg | | 78 | 72 - 122 | 5 | 20 |
| cis-1,3-Dichloropropene | | | 40.0 | 40.1 | | ug/Kg | | 100 | 73 - 120 | 5 | 20 |
| trans-1,3-Dichloropropene | | | 40.0 | 42.0 | | ug/Kg | | 105 | 74 - 129 | 0 | 20 |
| Ethylbenzene | | | 40.0 | 39.2 | | ug/Kg | | 98 | 78 - 125 | 6 | 21 |
| 2-Hexanone | | | 40.0 | 32.0 | | ug/Kg | | 80 | 32 - 150 | 7 | 32 |
| Methylene Chloride | | | 40.0 | 33.8 | | ug/Kg | | 84 | 58 - 127 | 14 | 28 |
| 4-Methyl-2-pentanone (MIBK) | | | 40.0 | 28.2 | | ug/Kg | | 70 | 44 - 148 | 7 | 30 |
| Styrene | | | 40.0 | 36.7 | | ug/Kg | | 92 | 83 - 129 | 7 | 20 |
| 1,1,2,2-Tetrachloroethane | | | 40.0 | 31.0 | | ug/Kg | | 78 | 60 - 139 | 8 | 24 |
| Tetrachloroethene | | | 40.0 | 41.1 | | ug/Kg | | 103 | 78 - 129 | 6 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-47265/3-A**
**Matrix: Solid**
**Analysis Batch: 47275**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47265**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | | | 40.0 | 46.0 | | ug/Kg | | 115 | 67 - 126 | 3 | 31 |
| 1,1,2-Trichloroethane | | | 40.0 | 34.9 | | ug/Kg | | 87 | 70 - 128 | 6 | 22 |
| Trichloroethene | | | 40.0 | 37.9 | | ug/Kg | | 95 | 76 - 119 | 0 | 21 |
| Vinyl chloride | | | 40.0 | 32.4 | | ug/Kg | | 81 | 63 - 124 | 4 | 27 |
| Xylenes, Total | | | 120 | 114 | | ug/Kg | | 95 | 83 - 126 | 3 | 20 |
| Cyclohexane | | | 40.0 | 32.7 | | ug/Kg | | 82 | 64 - 130 | 4 | 21 |
| 1,2-Dibromo-3-Chloropropane | | | 40.0 | 42.5 | | ug/Kg | | 106 | 35 - 136 | 11 | 40 |
| 1,2-Dibromoethane (EDB) | | | 40.0 | 37.5 | | ug/Kg | | 94 | 70 - 131 | 5 | 20 |
| Dichlorodifluoromethane | | | 40.0 | 34.5 | | ug/Kg | | 86 | 25 - 150 | 1 | 34 |
| cis-1,2-Dichloroethene | | | 40.0 | 34.9 | | ug/Kg | | 87 | 80 - 118 | 6 | 20 |
| trans-1,2-Dichloroethene | | | 40.0 | 37.0 | | ug/Kg | | 92 | 77 - 121 | 6 | 20 |
| Isopropylbenzene | | | 40.0 | 37.6 | | ug/Kg | | 94 | 70 - 133 | 4 | 22 |
| Methyl acetate | | | 40.0 | 26.5 | | ug/Kg | | 66 | 27 - 142 | 7 | 40 |
| Methylcyclohexane | | | 40.0 | 35.1 | | ug/Kg | | 88 | 66 - 135 | 5 | 23 |
| Methyl tert-butyl ether | | | 40.0 | 37.6 | | ug/Kg | | 94 | 48 - 132 | 6 | 36 |
| Trichlorofluoromethane | | | 40.0 | 44.4 | | ug/Kg | | 111 | 20 - 150 | 4 | 40 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 40.0 | 36.0 | | ug/Kg | | 90 | 55 - 130 | 4 | 37 |
| 1,2-Dichlorobenzene | | | 40.0 | 36.2 | | ug/Kg | | 91 | 71 - 124 | 9 | 22 |
| 1,3-Dichlorobenzene | | | 40.0 | 36.8 | | ug/Kg | | 92 | 75 - 118 | 8 | 20 |
| 1,4-Dichlorobenzene | | | 40.0 | 35.4 | | ug/Kg | | 88 | 77 - 116 | 4 | 20 |
| 1,2,4-Trichlorobenzene | | | 40.0 | 31.4 | | ug/Kg | | 79 | 51 - 136 | 20 | 40 |
| Toluene | | | 40.0 | 36.1 | | ug/Kg | | 90 | 78 - 124 | 1 | 21 |
| o-Xylene | | | 40.0 | 36.6 | | ug/Kg | | 91 | 83 - 127 | 5 | 20 |
| m-Xylene & p-Xylene | | | 80.0 | 77.2 | | ug/Kg | | 96 | 75 - 126 | 2 | 21 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *52 - 124* |
| *Toluene-d8 (Surr)* | *100* | | *72 - 127* |
| *4-Bromofluorobenzene (Surr)* | *88* | | *63 - 120* |
| *Dibromofluoromethane (Surr)* | *99* | | *68 - 121* |

**Lab Sample ID: MB 180-47684/3**
**Matrix: Water**
**Analysis Batch: 47684**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | | 20 | 5.0 | ug/L | | | 09/07/12 10:23 | 1 |
| Dichlorobromomethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 10:23 | 1 |
| Benzene | ND | | 5.0 | 0.99 | ug/L | | | 09/07/12 10:23 | 1 |
| Bromoform | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 10:23 | 1 |
| Bromomethane | ND | | 5.0 | 1.6 | ug/L | | | 09/07/12 10:23 | 1 |
| 2-Butanone (MEK) | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 10:23 | 1 |
| Carbon disulfide | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 10:23 | 1 |
| Carbon tetrachloride | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 10:23 | 1 |
| Chlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 10:23 | 1 |
| Chloroethane | ND | | 5.0 | 0.75 | ug/L | | | 09/07/12 10:23 | 1 |
| Chloroform | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 10:23 | 1 |
| Chloromethane | ND | | 5.0 | 1.4 | ug/L | | | 09/07/12 10:23 | 1 |
| Chlorodibromomethane | ND | | 5.0 | 0.65 | ug/L | | | 09/07/12 10:23 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-47684/3**
**Matrix: Water**
**Analysis Batch: 47684**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | 0.96 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,2-Dichloroethene, Total | ND | | 10 | 0.95 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | 1.3 | ug/L | | | 09/07/12 10:23 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 10:23 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 0.58 | ug/L | | | 09/07/12 10:23 | 1 |
| Ethylbenzene | ND | | 5.0 | 0.62 | ug/L | | | 09/07/12 10:23 | 1 |
| 2-Hexanone | ND | | 5.0 | 0.57 | ug/L | | | 09/07/12 10:23 | 1 |
| Methylene Chloride | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 10:23 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 0.59 | ug/L | | | 09/07/12 10:23 | 1 |
| Styrene | ND | | 5.0 | 0.64 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 0.93 | ug/L | | | 09/07/12 10:23 | 1 |
| Tetrachloroethene | ND | | 5.0 | 0.82 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 10:23 | 1 |
| Trichloroethene | ND | | 5.0 | 0.80 | ug/L | | | 09/07/12 10:23 | 1 |
| Vinyl chloride | ND | | 5.0 | 1.3 | ug/L | | | 09/07/12 10:23 | 1 |
| Xylenes, Total | ND | | 15 | 2.0 | ug/L | | | 09/07/12 10:23 | 1 |
| Cyclohexane | ND | | 5.0 | 0.60 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 0.35 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | 0.61 | ug/L | | | 09/07/12 10:23 | 1 |
| Dichlorodifluoromethane | ND | | 5.0 | 0.64 | ug/L | | | 09/07/12 10:23 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | 0.67 | ug/L | | | 09/07/12 10:23 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 0.75 | ug/L | | | 09/07/12 10:23 | 1 |
| Isopropylbenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 10:23 | 1 |
| Methyl acetate | ND | | 5.0 | 1.2 | ug/L | | | 09/07/12 10:23 | 1 |
| Methylcyclohexane | ND | | 5.0 | 0.56 | ug/L | | | 09/07/12 10:23 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | 1.0 | ug/L | | | 09/07/12 10:23 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | 1.1 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 0.33 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 0.68 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 0.51 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 0.53 | ug/L | | | 09/07/12 10:23 | 1 |
| 1,2,4-Trichlorobenzene | 2.03 | J | 5.0 | 0.38 | ug/L | | | 09/07/12 10:23 | 1 |
| Toluene | ND | | 5.0 | 0.85 | ug/L | | | 09/07/12 10:23 | 1 |
| o-Xylene | ND | | 5.0 | 0.73 | ug/L | | | 09/07/12 10:23 | 1 |
| m-Xylene & p-Xylene | ND | | 10 | 1.3 | ug/L | | | 09/07/12 10:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *104* | | *62 - 123* | | *09/07/12 10:23* | *1* |
| *Toluene-d8 (Surr)* | *90* | | *80 - 120* | | *09/07/12 10:23* | *1* |
| *4-Bromofluorobenzene (Surr)* | *106* | | *75 - 120* | | *09/07/12 10:23* | *1* |
| *Dibromofluoromethane (Surr)* | *112* | | *80 - 120* | | *09/07/12 10:23* | *1* |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-47684/4**
**Matrix: Water**
**Analysis Batch: 47684**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acetone | 40.0 | 27.2 | | ug/L | | 68 | 10 - 141 |
| Dichlorobromomethane | 40.0 | 40.2 | | ug/L | | 100 | 71 - 119 |
| Benzene | 40.0 | 41.1 | | ug/L | | 103 | 80 - 120 |
| Bromoform | 40.0 | 39.5 | | ug/L | | 99 | 49 - 137 |
| Bromomethane | 40.0 | 48.5 | | ug/L | | 121 | 45 - 150 |
| 2-Butanone (MEK) | 40.0 | 29.9 | | ug/L | | 75 | 31 - 139 |
| Carbon disulfide | 40.0 | 52.1 | * | ug/L | | 130 | 62 - 126 |
| Carbon tetrachloride | 40.0 | 48.0 | | ug/L | | 120 | 63 - 139 |
| Chlorobenzene | 40.0 | 40.9 | | ug/L | | 102 | 83 - 120 |
| Chloroethane | 40.0 | 68.7 | * | ug/L | | 172 | 33 - 150 |
| Chloroform | 40.0 | 42.1 | | ug/L | | 105 | 77 - 119 |
| Chloromethane | 40.0 | 52.1 | | ug/L | | 130 | 49 - 133 |
| Chlorodibromomethane | 40.0 | 39.1 | | ug/L | | 98 | 64 - 124 |
| 1,1-Dichloroethane | 40.0 | 43.5 | | ug/L | | 109 | 77 - 122 |
| 1,2-Dichloroethane | 40.0 | 36.6 | | ug/L | | 92 | 63 - 140 |
| 1,1-Dichloroethene | 40.0 | 49.2 | | ug/L | | 123 | 69 - 127 |
| 1,2-Dichloropropane | 40.0 | 37.5 | | ug/L | | 94 | 75 - 114 |
| cis-1,3-Dichloropropene | 40.0 | 39.1 | | ug/L | | 98 | 74 - 123 |
| trans-1,3-Dichloropropene | 40.0 | 38.8 | | ug/L | | 97 | 63 - 122 |
| Ethylbenzene | 40.0 | 38.6 | | ug/L | | 97 | 79 - 124 |
| 2-Hexanone | 40.0 | 36.0 | | ug/L | | 90 | 35 - 129 |
| Methylene Chloride | 40.0 | 45.4 | | ug/L | | 114 | 75 - 120 |
| 4-Methyl-2-pentanone (MIBK) | 40.0 | 46.4 | | ug/L | | 116 | 33 - 135 |
| Styrene | 40.0 | 40.6 | | ug/L | | 102 | 78 - 124 |
| 1,1,2,2-Tetrachloroethane | 40.0 | 38.8 | | ug/L | | 97 | 59 - 136 |
| Tetrachloroethene | 40.0 | 38.2 | | ug/L | | 96 | 78 - 126 |
| 1,1,1-Trichloroethane | 40.0 | 47.1 | | ug/L | | 118 | 69 - 134 |
| 1,1,2-Trichloroethane | 40.0 | 36.7 | | ug/L | | 92 | 75 - 126 |
| Trichloroethene | 40.0 | 38.5 | | ug/L | | 96 | 80 - 120 |
| Vinyl chloride | 40.0 | 53.3 | * | ug/L | | 133 | 57 - 128 |
| Xylenes, Total | 120 | 122 | | ug/L | | 102 | 81 - 121 |
| Cyclohexane | 40.0 | 47.1 | | ug/L | | 118 | 69 - 124 |
| 1,2-Dibromo-3-Chloropropane | 40.0 | 32.0 | | ug/L | | 80 | 28 - 150 |
| 1,2-Dibromoethane (EDB) | 40.0 | 38.3 | | ug/L | | 96 | 57 - 124 |
| Dichlorodifluoromethane | 40.0 | 52.1 | | ug/L | | 130 | 28 - 140 |
| cis-1,2-Dichloroethene | 40.0 | 41.7 | | ug/L | | 104 | 82 - 116 |
| trans-1,2-Dichloroethene | 40.0 | 44.9 | | ug/L | | 112 | 78 - 120 |
| Isopropylbenzene | 40.0 | 43.5 | | ug/L | | 109 | 73 - 130 |
| Methyl acetate | 40.0 | 38.0 | | ug/L | | 95 | 34 - 127 |
| Methylcyclohexane | 40.0 | 45.5 | | ug/L | | 114 | 67 - 120 |
| Methyl tert-butyl ether | 40.0 | 46.7 | | ug/L | | 117 | 53 - 122 |
| Trichlorofluoromethane | 40.0 | 66.2 | * | ug/L | | 165 | 14 - 150 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40.0 | 50.0 | | ug/L | | 125 | 70 - 131 |
| 1,2-Dichlorobenzene | 40.0 | 39.2 | | ug/L | | 98 | 75 - 125 |
| 1,3-Dichlorobenzene | 40.0 | 39.4 | | ug/L | | 99 | 76 - 125 |
| 1,4-Dichlorobenzene | 40.0 | 39.7 | | ug/L | | 99 | 76 - 123 |
| 1,2,4-Trichlorobenzene | 40.0 | 18.7 | | ug/L | | 47 | 35 - 150 |
| Toluene | 40.0 | 39.7 | | ug/L | | 99 | 80 - 124 |
| o-Xylene | 40.0 | 41.2 | | ug/L | | 103 | 78 - 124 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-47684/4**
**Matrix: Water**
**Analysis Batch: 47684**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| m-Xylene & p-Xylene | | | 80.0 | 81.2 | | ug/L | | 101 | 78 - 124 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *91* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *92* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *103* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *102* | | *80 - 120* |

**Lab Sample ID: LCSD 180-47684/5**
**Matrix: Water**
**Analysis Batch: 47684**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | | | 40.0 | 34.0 | | ug/L | | 85 | 10 - 141 | 22 | 32 |
| Dichlorobromomethane | | | 40.0 | 41.0 | | ug/L | | 102 | 71 - 119 | 2 | 20 |
| Benzene | | | 40.0 | 42.9 | | ug/L | | 107 | 80 - 120 | 4 | 20 |
| Bromoform | | | 40.0 | 45.8 | | ug/L | | 114 | 49 - 137 | 15 | 20 |
| Bromomethane | | | 40.0 | 48.4 | | ug/L | | 121 | 45 - 150 | 0 | 23 |
| 2-Butanone (MEK) | | | 40.0 | 34.1 | | ug/L | | 85 | 31 - 139 | 13 | 35 |
| Carbon disulfide | | | 40.0 | 54.1 | * | ug/L | | 135 | 62 - 126 | 4 | 20 |
| Carbon tetrachloride | | | 40.0 | 48.9 | | ug/L | | 122 | 63 - 139 | 2 | 25 |
| Chlorobenzene | | | 40.0 | 43.5 | | ug/L | | 109 | 83 - 120 | 6 | 20 |
| Chloroethane | | | 40.0 | 49.5 | * | ug/L | | 124 | 33 - 150 | 33 | 24 |
| Chloroform | | | 40.0 | 44.4 | | ug/L | | 111 | 77 - 119 | 5 | 20 |
| Chloromethane | | | 40.0 | 55.2 | * | ug/L | | 138 | 49 - 133 | 6 | 20 |
| Chlorodibromomethane | | | 40.0 | 42.2 | | ug/L | | 106 | 64 - 124 | 8 | 20 |
| 1,1-Dichloroethane | | | 40.0 | 45.5 | | ug/L | | 114 | 77 - 122 | 5 | 22 |
| 1,2-Dichloroethane | | | 40.0 | 40.3 | | ug/L | | 101 | 63 - 140 | 10 | 25 |
| 1,1-Dichloroethene | | | 40.0 | 50.5 | | ug/L | | 126 | 69 - 127 | 3 | 20 |
| 1,2-Dichloropropane | | | 40.0 | 39.4 | | ug/L | | 98 | 75 - 114 | 5 | 20 |
| cis-1,3-Dichloropropene | | | 40.0 | 40.5 | | ug/L | | 101 | 74 - 123 | 3 | 20 |
| trans-1,3-Dichloropropene | | | 40.0 | 42.6 | | ug/L | | 107 | 63 - 122 | 9 | 20 |
| Ethylbenzene | | | 40.0 | 40.7 | | ug/L | | 102 | 79 - 124 | 5 | 25 |
| 2-Hexanone | | | 40.0 | 42.2 | | ug/L | | 106 | 35 - 129 | 16 | 24 |
| Methylene Chloride | | | 40.0 | 48.2 | * | ug/L | | 121 | 75 - 120 | 6 | 20 |
| 4-Methyl-2-pentanone (MIBK) | | | 40.0 | 51.4 | | ug/L | | 129 | 33 - 135 | 10 | 29 |
| Styrene | | | 40.0 | 43.7 | | ug/L | | 109 | 78 - 124 | 7 | 22 |
| 1,1,2,2-Tetrachloroethane | | | 40.0 | 43.1 | | ug/L | | 108 | 59 - 136 | 10 | 20 |
| Tetrachloroethene | | | 40.0 | 38.8 | | ug/L | | 97 | 78 - 126 | 1 | 25 |
| 1,1,1-Trichloroethane | | | 40.0 | 48.8 | | ug/L | | 122 | 69 - 134 | 3 | 24 |
| 1,1,2-Trichloroethane | | | 40.0 | 40.5 | | ug/L | | 101 | 75 - 126 | 10 | 23 |
| Trichloroethene | | | 40.0 | 39.9 | | ug/L | | 100 | 80 - 120 | 4 | 20 |
| Vinyl chloride | | | 40.0 | 55.1 | * | ug/L | | 138 | 57 - 128 | 3 | 26 |
| Xylenes, Total | | | 120 | 127 | | ug/L | | 106 | 81 - 121 | 4 | 20 |
| Cyclohexane | | | 40.0 | 48.9 | | ug/L | | 122 | 69 - 124 | 4 | 20 |
| 1,2-Dibromo-3-Chloropropane | | | 40.0 | 41.8 | * | ug/L | | 104 | 28 - 150 | 27 | 20 |
| 1,2-Dibromoethane (EDB) | | | 40.0 | 43.5 | | ug/L | | 109 | 57 - 124 | 13 | 20 |
| Dichlorodifluoromethane | | | 40.0 | 56.7 | * | ug/L | | 142 | 28 - 140 | 8 | 20 |
| cis-1,2-Dichloroethene | | | 40.0 | 44.6 | | ug/L | | 111 | 82 - 116 | 7 | 20 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-47684/5**
**Matrix: Water**
**Analysis Batch: 47684**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | | | 40.0 | 46.9 | | ug/L | | 117 | 78 - 120 | 4 | 20 |
| Isopropylbenzene | | | 40.0 | 45.8 | | ug/L | | 114 | 73 - 130 | 5 | 20 |
| Methyl acetate | | | 40.0 | 44.7 | | ug/L | | 112 | 34 - 127 | 16 | 29 |
| Methylcyclohexane | | | 40.0 | 48.5 | * | ug/L | | 121 | 67 - 120 | 6 | 20 |
| Methyl tert-butyl ether | | | 40.0 | 52.5 | * | ug/L | | 131 | 53 - 122 | 12 | 20 |
| Trichlorofluoromethane | | | 40.0 | 61.2 | * | ug/L | | 153 | 14 - 150 | 8 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | 40.0 | 52.1 | | ug/L | | 130 | 70 - 131 | 4 | 30 |
| 1,2-Dichlorobenzene | | | 40.0 | 42.0 | | ug/L | | 105 | 75 - 125 | 7 | 20 |
| 1,3-Dichlorobenzene | | | 40.0 | 41.4 | | ug/L | | 104 | 76 - 125 | 5 | 21 |
| 1,4-Dichlorobenzene | | | 40.0 | 41.9 | | ug/L | | 105 | 76 - 123 | 5 | 20 |
| 1,2,4-Trichlorobenzene | | | 40.0 | 49.3 | * | ug/L | | 123 | 35 - 150 | 90 | 30 |
| Toluene | | | 40.0 | 41.1 | | ug/L | | 103 | 80 - 124 | 3 | 20 |
| o-Xylene | | | 40.0 | 43.0 | | ug/L | | 108 | 78 - 124 | 4 | 22 |
| m-Xylene & p-Xylene | | | 80.0 | 84.1 | | ug/L | | 105 | 78 - 124 | 4 | 24 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *111* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *106* | | *80 - 120* |

## Method: 8260B - Volatile Organic Compounds by GC/MS

**Lab Sample ID: LCS 180-47650/5**
**Matrix: Solid**
**Analysis Batch: 47650**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.400 | 0.436 | | mg/L | | 109 | 80 - 120 | | |
| 2-Butanone (MEK) | | | 0.400 | 0.225 | | mg/L | | 56 | 31 - 139 | | |
| Carbon tetrachloride | | | 0.400 | 0.460 | | mg/L | | 115 | 63 - 139 | | |
| Chlorobenzene | | | 0.400 | 0.441 | | mg/L | | 110 | 83 - 120 | | |
| Chloroform | | | 0.400 | 0.444 | | mg/L | | 111 | 77 - 119 | | |
| 1,2-Dichloroethane | | | 0.400 | 0.364 | | mg/L | | 91 | 63 - 140 | | |
| 1,1-Dichloroethene | | | 0.400 | 0.435 | | mg/L | | 109 | 69 - 127 | | |
| Tetrachloroethene | | | 0.400 | 0.437 | | mg/L | | 109 | 78 - 126 | | |
| Trichloroethene | | | 0.400 | 0.431 | | mg/L | | 108 | 80 - 120 | | |
| Vinyl chloride | | | 0.400 | 0.448 | | mg/L | | 112 | 57 - 128 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *88* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *109* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *110* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *110* | | *80 - 120* |

## Method: 8260B - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCSD 180-47650/6**
**Matrix: Solid**
**Analysis Batch: 47650**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.400 | 0.442 | | mg/L | | 110 | 80 - 120 | 1 | 20 |
| 2-Butanone (MEK) | | | 0.400 | 0.244 | | mg/L | | 61 | 31 - 139 | 8 | 35 |
| Carbon tetrachloride | | | 0.400 | 0.486 | | mg/L | | 122 | 63 - 139 | 5 | 25 |
| Chlorobenzene | | | 0.400 | 0.442 | | mg/L | | 111 | 83 - 120 | 0 | 20 |
| Chloroform | | | 0.400 | 0.446 | | mg/L | | 111 | 77 - 119 | 0 | 20 |
| 1,2-Dichloroethane | | | 0.400 | 0.372 | | mg/L | | 93 | 63 - 140 | 2 | 25 |
| 1,1-Dichloroethene | | | 0.400 | 0.452 | | mg/L | | 113 | 69 - 127 | 4 | 20 |
| Tetrachloroethene | | | 0.400 | 0.450 | | mg/L | | 112 | 78 - 126 | 3 | 25 |
| Trichloroethene | | | 0.400 | 0.444 | | mg/L | | 111 | 80 - 120 | 3 | 20 |
| Vinyl chloride | | | 0.400 | 0.465 | | mg/L | | 116 | 57 - 128 | 4 | 26 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *89* | | *62 - 123* |
| *Toluene-d8 (Surr)* | *109* | | *80 - 120* |
| *4-Bromofluorobenzene (Surr)* | *109* | | *75 - 120* |
| *Dibromofluoromethane (Surr)* | *110* | | *80 - 120* |

**Lab Sample ID: LB 180-47567/15-A LB**
**Matrix: Solid**
**Analysis Batch: 47650**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 0.050 | 0.0099 | mg/L | | | 09/07/12 10:37 | 10 |
| 2-Butanone (MEK) | ND | | 0.050 | 0.011 | mg/L | | | 09/07/12 10:37 | 10 |
| Carbon tetrachloride | ND | | 0.050 | 0.011 | mg/L | | | 09/07/12 10:37 | 10 |
| Chlorobenzene | ND | | 0.050 | 0.0053 | mg/L | | | 09/07/12 10:37 | 10 |
| Chloroform | ND | | 0.050 | 0.010 | mg/L | | | 09/07/12 10:37 | 10 |
| 1,2-Dichloroethane | ND | | 0.050 | 0.0096 | mg/L | | | 09/07/12 10:37 | 10 |
| 1,1-Dichloroethene | ND | | 0.050 | 0.011 | mg/L | | | 09/07/12 10:37 | 10 |
| Tetrachloroethene | ND | | 0.050 | 0.0082 | mg/L | | | 09/07/12 10:37 | 10 |
| Trichloroethene | ND | | 0.050 | 0.0080 | mg/L | | | 09/07/12 10:37 | 10 |
| Vinyl chloride | ND | | 0.050 | 0.013 | mg/L | | | 09/07/12 10:37 | 10 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *62 - 123* | | *09/07/12 10:37* | *10* |
| *Toluene-d8 (Surr)* | *109* | | *80 - 120* | | *09/07/12 10:37* | *10* |
| *4-Bromofluorobenzene (Surr)* | *104* | | *75 - 120* | | *09/07/12 10:37* | *10* |
| *Dibromofluoromethane (Surr)* | *108* | | *80 - 120* | | *09/07/12 10:37* | *10* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 180-47211/1-A**
**Matrix: Water**
**Analysis Batch: 47446**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47211**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 2.0 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Acetophenone | ND | | 10 | 0.80 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Acenaphthylene | ND | | 2.0 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-47211/1-A**
**Matrix: Water**
**Analysis Batch: 47446**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47211**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Anthracene | ND | | 2.0 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Benzo[a]anthracene | ND | | 2.0 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Benzo[a]pyrene | ND | | 2.0 | 0.13 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Benzo[b]fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Benzo[g,h,i]perylene | ND | | 2.0 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Benzo[k]fluoranthene | ND | | 2.0 | 0.55 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Bis(2-chloroethyl)ether | ND | | 2.0 | 0.25 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 10 | 0.58 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 2.0 | 0.20 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 20 | 13 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 10 | 0.64 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 1.4 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Carbazole | ND | | 2.0 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 4-Chloroaniline | ND | | 10 | 0.89 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2-Chloronaphthalene | ND | | 2.0 | 0.15 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | 0.50 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Chrysene | ND | | 2.0 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Dibenz(a,h)anthracene | ND | | 2.0 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Dibenzofuran | ND | | 10 | 0.62 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 1.2 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 10 | 1.1 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Diethyl phthalate | ND | | 10 | 1.5 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.77 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2,4-Dinitrotoluene | ND | | 10 | 0.54 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2,6-Dinitrotoluene | ND | | 10 | 0.80 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 2.1 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Fluorene | ND | | 2.0 | 0.22 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Hexachlorobenzene | ND | | 2.0 | 0.18 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | 0.17 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.52 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Hexachloroethane | ND | | 10 | 0.63 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 2.0 | 0.20 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Isophorone | ND | | 10 | 0.64 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2-Methylnaphthalene | ND | | 2.0 | 0.12 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Naphthalene | ND | | 2.0 | 0.14 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2-Nitroaniline | ND | | 50 | 3.5 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 3-Nitroaniline | ND | | 50 | 3.2 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 4-Nitroaniline | ND | | 50 | 1.7 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Nitrobenzene | ND | | 20 | 0.84 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 2.0 | 0.31 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| N-Nitrosodiphenylamine | ND | | 10 | 0.85 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Phenanthrene | ND | | 2.0 | 0.43 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Pyrene | ND | | 2.0 | 0.16 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 4-Chloro-3-methylphenol | ND | | 10 | 0.75 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2-Chlorophenol | ND | | 10 | 1.7 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2-Methylphenol | ND | | 10 | 0.86 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2,4-Dichlorophenol | ND | | 2.0 | 0.33 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2,4-Dimethylphenol | ND | | 10 | 0.85 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2,4-Dinitrophenol | ND | | 50 | 6.1 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-47211/1-A**
**Matrix: Water**
**Analysis Batch: 47446**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47211**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | ND | | 50 | 2.2 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2-Nitrophenol | ND | | 10 | 1.7 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 4-Nitrophenol | ND | | 50 | 6.5 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Pentachlorophenol | ND | | 10 | 0.66 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Phenol | ND | | 2.0 | 0.58 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 1.5 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 2,4,6-Trichlorophenol | ND | | 10 | 1.7 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| 1,1'-Biphenyl | ND | | 10 | 0.42 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Caprolactam | ND | | 50 | 12 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Benzaldehyde | ND | | 10 | 1.5 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Atrazine | ND | | 10 | 0.89 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |
| Methylphenol, 3 & 4 | ND | | 10 | 0.90 | ug/L | | 09/04/12 12:59 | 09/05/12 12:38 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *72* | | *37 - 104* | *09/04/12 12:59* | *09/05/12 12:38* | *1* |
| *2-Fluorobiphenyl* | *72* | | *35 - 108* | *09/04/12 12:59* | *09/05/12 12:38* | *1* |
| *Terphenyl-d14* | *91* | | *25 - 130* | *09/04/12 12:59* | *09/05/12 12:38* | *1* |
| *Phenol-d5* | *76* | | *30 - 102* | *09/04/12 12:59* | *09/05/12 12:38* | *1* |
| *2-Fluorophenol* | *79* | | *26 - 100* | *09/04/12 12:59* | *09/05/12 12:38* | *1* |
| *2,4,6-Tribromophenol* | *74* | | *33 - 122* | *09/04/12 12:59* | *09/05/12 12:38* | *1* |

**Lab Sample ID: LCS 180-47211/2-A**
**Matrix: Water**
**Analysis Batch: 47446**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47211**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 200 | 149 | | ug/L | | 74 | 39 - 106 |
| Acenaphthylene | 200 | 163 | | ug/L | | 81 | 40 - 113 |
| Anthracene | 200 | 164 | | ug/L | | 82 | 37 - 108 |
| Benzo[a]anthracene | 200 | 174 | | ug/L | | 87 | 40 - 103 |
| Benzo[a]pyrene | 200 | 168 | | ug/L | | 84 | 37 - 105 |
| Benzo[b]fluoranthene | 200 | 157 | | ug/L | | 78 | 35 - 100 |
| Benzo[g,h,i]perylene | 200 | 167 | | ug/L | | 84 | 31 - 118 |
| Benzo[k]fluoranthene | 200 | 147 | | ug/L | | 74 | 37 - 108 |
| Bis(2-chloroethyl)ether | 200 | 119 | | ug/L | | 60 | 34 - 96 |
| Bis(2-chloroethoxy)methane | 200 | 133 | | ug/L | | 66 | 36 - 101 |
| bis (2-chloroisopropyl) ether | 200 | 109 | | ug/L | | 54 | 30 - 100 |
| Bis(2-ethylhexyl) phthalate | 200 | 166 | | ug/L | | 83 | 35 - 112 |
| 4-Bromophenyl phenyl ether | 200 | 150 | | ug/L | | 75 | 38 - 108 |
| Butyl benzyl phthalate | 200 | 170 | | ug/L | | 85 | 34 - 110 |
| Carbazole | 200 | 159 | | ug/L | | 79 | 35 - 113 |
| 4-Chloroaniline | 200 | 146 | | ug/L | | 73 | 26 - 99 |
| 2-Chloronaphthalene | 200 | 144 | | ug/L | | 72 | 37 - 102 |
| 4-Chlorophenyl phenyl ether | 200 | 159 | | ug/L | | 79 | 39 - 107 |
| Chrysene | 200 | 170 | | ug/L | | 85 | 39 - 103 |
| Dibenz(a,h)anthracene | 200 | 166 | | ug/L | | 83 | 32 - 117 |
| Dibenzofuran | 200 | 153 | | ug/L | | 76 | 37 - 107 |
| Di-n-butyl phthalate | 200 | 166 | | ug/L | | 83 | 36 - 113 |
| 3,3'-Dichlorobenzidine | 200 | 175 | | ug/L | | 87 | 11 - 106 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-47211/2-A**
**Matrix: Water**
**Analysis Batch: 47446**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47211**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diethyl phthalate | 200 | 160 | | ug/L | | 80 | 39 - 112 |
| Dimethyl phthalate | 200 | 160 | | ug/L | | 80 | 40 - 110 |
| 2,4-Dinitrotoluene | 200 | 169 | | ug/L | | 85 | 41 - 117 |
| 2,6-Dinitrotoluene | 200 | 169 | | ug/L | | 84 | 42 - 118 |
| Di-n-octyl phthalate | 200 | 161 | | ug/L | | 81 | 27 - 118 |
| Fluoranthene | 200 | 174 | | ug/L | | 87 | 35 - 111 |
| Fluorene | 200 | 160 | | ug/L | | 80 | 39 - 107 |
| Hexachlorobenzene | 200 | 161 | | ug/L | | 80 | 35 - 106 |
| Hexachlorobutadiene | 200 | 125 | | ug/L | | 63 | 30 - 103 |
| Hexachlorocyclopentadiene | 200 | 147 | | ug/L | | 74 | 19 - 116 |
| Hexachloroethane | 200 | 108 | | ug/L | | 54 | 27 - 94 |
| Indeno[1,2,3-cd]pyrene | 200 | 162 | | ug/L | | 81 | 32 - 116 |
| Isophorone | 200 | 149 | | ug/L | | 75 | 39 - 108 |
| 2-Methylnaphthalene | 200 | 130 | | ug/L | | 65 | 36 - 101 |
| Naphthalene | 200 | 132 | | ug/L | | 66 | 35 - 98 |
| 2-Nitroaniline | 200 | 148 | | ug/L | | 74 | 37 - 114 |
| 3-Nitroaniline | 200 | 164 | | ug/L | | 82 | 32 - 117 |
| 4-Nitroaniline | 200 | 174 | | ug/L | | 87 | 32 - 117 |
| Nitrobenzene | 200 | 132 | | ug/L | | 66 | 37 - 103 |
| N-Nitrosodi-n-propylamine | 200 | 128 | | ug/L | | 64 | 37 - 106 |
| N-Nitrosodiphenylamine | 200 | 166 | | ug/L | | 83 | 34 - 108 |
| Phenanthrene | 200 | 153 | | ug/L | | 77 | 34 - 107 |
| Pyrene | 200 | 158 | | ug/L | | 79 | 36 - 115 |
| 4-Chloro-3-methylphenol | 200 | 144 | | ug/L | | 72 | 40 - 107 |
| 2-Chlorophenol | 200 | 122 | | ug/L | | 61 | 34 - 100 |
| 2-Methylphenol | 200 | 125 | | ug/L | | 63 | 34 - 101 |
| 2,4-Dichlorophenol | 200 | 141 | | ug/L | | 71 | 34 - 106 |
| 2,4-Dimethylphenol | 200 | 138 | | ug/L | | 69 | 34 - 98 |
| 2,4-Dinitrophenol | 200 | 182 | | ug/L | | 91 | 3 - 125 |
| 4,6-Dinitro-2-methylphenol | 200 | 170 | | ug/L | | 85 | 24 - 121 |
| 2-Nitrophenol | 200 | 137 | | ug/L | | 68 | 33 - 108 |
| 4-Nitrophenol | 200 | 170 | | ug/L | | 85 | 29 - 120 |
| Pentachlorophenol | 200 | 154 | | ug/L | | 77 | 10 - 118 |
| Phenol | 200 | 123 | | ug/L | | 62 | 35 - 98 |
| 2,4,5-Trichlorophenol | 200 | 152 | | ug/L | | 76 | 31 - 111 |
| 2,4,6-Trichlorophenol | 200 | 150 | | ug/L | | 75 | 34 - 110 |
| Methylphenol, 3 & 4 | 400 | 281 | | ug/L | | 70 | 34 - 104 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *68* | | *37 - 104* |
| *2-Fluorobiphenyl* | *73* | | *35 - 108* |
| *Terphenyl-d14* | *88* | | *25 - 130* |
| *Phenol-d5* | *69* | | *30 - 102* |
| *2-Fluorophenol* | *70* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *87* | | *33 - 122* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-47211/3-A**
**Matrix: Water**
**Analysis Batch: 47446**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47211**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 200 | 145 | | ug/L | | 73 | 39 - 106 | 2 | 32 |
| Acenaphthylene | 200 | 160 | | ug/L | | 80 | 40 - 113 | 2 | 33 |
| Anthracene | 200 | 152 | | ug/L | | 76 | 37 - 108 | 8 | 40 |
| Benzo[a]anthracene | 200 | 164 | | ug/L | | 82 | 40 - 103 | 6 | 33 |
| Benzo[a]pyrene | 200 | 164 | | ug/L | | 82 | 37 - 105 | 2 | 35 |
| Benzo[b]fluoranthene | 200 | 139 | | ug/L | | 69 | 35 - 100 | 12 | 44 |
| Benzo[g,h,i]perylene | 200 | 165 | | ug/L | | 82 | 31 - 118 | 1 | 45 |
| Benzo[k]fluoranthene | 200 | 160 | | ug/L | | 80 | 37 - 108 | 9 | 42 |
| Bis(2-chloroethyl)ether | 200 | 115 | | ug/L | | 58 | 34 - 96 | 3 | 34 |
| Bis(2-chloroethoxy)methane | 200 | 128 | | ug/L | | 64 | 36 - 101 | 4 | 35 |
| bis (2-chloroisopropyl) ether | 200 | 104 | | ug/L | | 52 | 30 - 100 | 5 | 38 |
| Bis(2-ethylhexyl) phthalate | 200 | 159 | | ug/L | | 80 | 35 - 112 | 4 | 34 |
| 4-Bromophenyl phenyl ether | 200 | 142 | | ug/L | | 71 | 38 - 108 | 5 | 40 |
| Butyl benzyl phthalate | 200 | 162 | | ug/L | | 81 | 34 - 110 | 5 | 35 |
| Carbazole | 200 | 156 | | ug/L | | 78 | 35 - 113 | 2 | 32 |
| 4-Chloroaniline | 200 | 144 | | ug/L | | 72 | 26 - 99 | 2 | 55 |
| 2-Chloronaphthalene | 200 | 143 | | ug/L | | 71 | 37 - 102 | 1 | 34 |
| 4-Chlorophenyl phenyl ether | 200 | 158 | | ug/L | | 79 | 39 - 107 | 0 | 34 |
| Chrysene | 200 | 163 | | ug/L | | 82 | 39 - 103 | 4 | 38 |
| Dibenz(a,h)anthracene | 200 | 166 | | ug/L | | 83 | 32 - 117 | 0 | 43 |
| Dibenzofuran | 200 | 149 | | ug/L | | 74 | 37 - 107 | 3 | 32 |
| Di-n-butyl phthalate | 200 | 162 | | ug/L | | 81 | 36 - 113 | 2 | 39 |
| 3,3'-Dichlorobenzidine | 200 | 169 | | ug/L | | 85 | 11 - 106 | 3 | 56 |
| Diethyl phthalate | 200 | 160 | | ug/L | | 80 | 39 - 112 | 1 | 32 |
| Dimethyl phthalate | 200 | 158 | | ug/L | | 79 | 40 - 110 | 1 | 33 |
| 2,4-Dinitrotoluene | 200 | 170 | | ug/L | | 85 | 41 - 117 | 0 | 32 |
| 2,6-Dinitrotoluene | 200 | 166 | | ug/L | | 83 | 42 - 118 | 2 | 33 |
| Di-n-octyl phthalate | 200 | 157 | | ug/L | | 79 | 27 - 118 | 3 | 36 |
| Fluoranthene | 200 | 164 | | ug/L | | 82 | 35 - 111 | 6 | 43 |
| Fluorene | 200 | 155 | | ug/L | | 78 | 39 - 107 | 3 | 33 |
| Hexachlorobenzene | 200 | 154 | | ug/L | | 77 | 35 - 106 | 5 | 36 |
| Hexachlorobutadiene | 200 | 121 | | ug/L | | 61 | 30 - 103 | 3 | 41 |
| Hexachlorocyclopentadiene | 200 | 149 | | ug/L | | 74 | 19 - 116 | 1 | 57 |
| Hexachloroethane | 200 | 104 | | ug/L | | 52 | 27 - 94 | 4 | 43 |
| Indeno[1,2,3-cd]pyrene | 200 | 159 | | ug/L | | 80 | 32 - 116 | 2 | 45 |
| Isophorone | 200 | 142 | | ug/L | | 71 | 39 - 108 | 5 | 36 |
| 2-Methylnaphthalene | 200 | 128 | | ug/L | | 64 | 36 - 101 | 1 | 35 |
| Naphthalene | 200 | 127 | | ug/L | | 64 | 35 - 98 | 3 | 39 |
| 2-Nitroaniline | 200 | 151 | | ug/L | | 76 | 37 - 114 | 2 | 33 |
| 3-Nitroaniline | 200 | 165 | | ug/L | | 83 | 32 - 117 | 1 | 46 |
| 4-Nitroaniline | 200 | 173 | | ug/L | | 86 | 32 - 117 | 1 | 39 |
| Nitrobenzene | 200 | 130 | | ug/L | | 65 | 37 - 103 | 2 | 34 |
| N-Nitrosodi-n-propylamine | 200 | 122 | | ug/L | | 61 | 37 - 106 | 6 | 36 |
| N-Nitrosodiphenylamine | 200 | 164 | | ug/L | | 82 | 34 - 108 | 2 | 42 |
| Phenanthrene | 200 | 148 | | ug/L | | 74 | 34 - 107 | 4 | 34 |
| Pyrene | 200 | 151 | | ug/L | | 76 | 36 - 115 | 4 | 38 |
| 4-Chloro-3-methylphenol | 200 | 139 | | ug/L | | 69 | 40 - 107 | 3 | 32 |
| 2-Chlorophenol | 200 | 120 | | ug/L | | 60 | 34 - 100 | 2 | 31 |
| 2-Methylphenol | 200 | 121 | | ug/L | | 60 | 34 - 101 | 3 | 34 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-47211/3-A**
**Matrix: Water**
**Analysis Batch: 47446**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47211**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | | | 200 | 137 | | ug/L | | 69 | 34 - 106 | 3 | 33 |
| 2,4-Dimethylphenol | | | 200 | 133 | | ug/L | | 67 | 34 - 98 | 3 | 34 |
| 2,4-Dinitrophenol | | | 200 | 186 | | ug/L | | 93 | 3 - 125 | 2 | 62 |
| 4,6-Dinitro-2-methylphenol | | | 200 | 165 | | ug/L | | 83 | 24 - 121 | 3 | 50 |
| 2-Nitrophenol | | | 200 | 140 | | ug/L | | 70 | 33 - 108 | 2 | 41 |
| 4-Nitrophenol | | | 200 | 164 | | ug/L | | 82 | 29 - 120 | 4 | 39 |
| Pentachlorophenol | | | 200 | 149 | | ug/L | | 74 | 10 - 118 | 4 | 49 |
| Phenol | | | 200 | 119 | | ug/L | | 59 | 35 - 98 | 4 | 35 |
| 2,4,5-Trichlorophenol | | | 200 | 145 | | ug/L | | 72 | 31 - 111 | 5 | 32 |
| 2,4,6-Trichlorophenol | | | 200 | 148 | | ug/L | | 74 | 34 - 110 | 1 | 35 |
| Methylphenol, 3 & 4 | | | 400 | 268 | | ug/L | | 67 | 34 - 104 | 4 | 34 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *66* | | *37 - 104* |
| *2-Fluorobiphenyl* | *71* | | *35 - 108* |
| *Terphenyl-d14* | *87* | | *25 - 130* |
| *Phenol-d5* | *66* | | *30 - 102* |
| *2-Fluorophenol* | *65* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *84* | | *33 - 122* |

**Lab Sample ID: MB 180-47296/1-A**
**Matrix: Water**
**Analysis Batch: 47584**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47296**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 2.0 | 0.14 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Acetophenone | ND | | 10 | 0.80 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Acenaphthylene | ND | | 2.0 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Anthracene | ND | | 2.0 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Benzo[a]anthracene | ND | | 2.0 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Benzo[a]pyrene | ND | | 2.0 | 0.13 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Benzo[b]fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Benzo[g,h,i]perylene | ND | | 2.0 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Benzo[k]fluoranthene | ND | | 2.0 | 0.55 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Bis(2-chloroethyl)ether | ND | | 2.0 | 0.25 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 10 | 0.58 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 2.0 | 0.20 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 20 | 13 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 10 | 0.64 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Butyl benzyl phthalate | ND | | 10 | 1.4 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Carbazole | ND | | 2.0 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 4-Chloroaniline | ND | | 10 | 0.89 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2-Chloronaphthalene | ND | | 2.0 | 0.15 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 10 | 0.50 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Chrysene | ND | | 2.0 | 0.14 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Dibenz(a,h)anthracene | ND | | 2.0 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Dibenzofuran | ND | | 10 | 0.62 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Di-n-butyl phthalate | ND | | 10 | 1.2 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 10 | 1.1 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-47296/1-A**
**Matrix: Water**
**Analysis Batch: 47584**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47296**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diethyl phthalate | ND | | 10 | 1.5 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Dimethyl phthalate | ND | | 10 | 0.77 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2,4-Dinitrotoluene | ND | | 10 | 0.54 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2,6-Dinitrotoluene | ND | | 10 | 0.80 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Di-n-octyl phthalate | ND | | 10 | 2.1 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Fluoranthene | ND | | 2.0 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Fluorene | ND | | 2.0 | 0.22 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Hexachlorobenzene | ND | | 2.0 | 0.18 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | 0.17 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Hexachlorocyclopentadiene | ND | | 10 | 0.52 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Hexachloroethane | ND | | 10 | 0.63 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 2.0 | 0.20 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Isophorone | ND | | 10 | 0.64 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2-Methylnaphthalene | ND | | 2.0 | 0.12 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Naphthalene | ND | | 2.0 | 0.14 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2-Nitroaniline | ND | | 50 | 3.5 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 3-Nitroaniline | ND | | 50 | 3.2 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 4-Nitroaniline | ND | | 50 | 1.7 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Nitrobenzene | ND | | 20 | 0.84 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 2.0 | 0.31 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| N-Nitrosodiphenylamine | ND | | 10 | 0.85 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Phenanthrene | ND | | 2.0 | 0.43 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Pyrene | ND | | 2.0 | 0.16 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 4-Chloro-3-methylphenol | ND | | 10 | 0.75 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2-Chlorophenol | ND | | 10 | 1.7 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2-Methylphenol | ND | | 10 | 0.86 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2,4-Dichlorophenol | ND | | 2.0 | 0.33 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2,4-Dimethylphenol | ND | | 10 | 0.85 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2,4-Dinitrophenol | ND | | 50 | 6.1 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 50 | 2.2 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2-Nitrophenol | ND | | 10 | 1.7 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 4-Nitrophenol | ND | | 50 | 6.5 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Pentachlorophenol | ND | | 10 | 0.66 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Phenol | ND | | 2.0 | 0.58 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2,4,5-Trichlorophenol | ND | | 10 | 1.5 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 2,4,6-Trichlorophenol | ND | | 10 | 1.7 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| 1,1'-Biphenyl | ND | | 10 | 0.42 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Caprolactam | ND | | 50 | 12 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Benzaldehyde | ND | | 10 | 1.5 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Atrazine | ND | | 10 | 0.89 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |
| Methylphenol, 3 & 4 | ND | | 10 | 0.90 | ug/L | | 09/05/12 09:09 | 09/06/12 13:09 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *80* | | *37 - 104* | *09/05/12 09:09* | *09/06/12 13:09* | *1* |
| *2-Fluorobiphenyl* | *75* | | *35 - 108* | *09/05/12 09:09* | *09/06/12 13:09* | *1* |
| *Terphenyl-d14* | *90* | | *25 - 130* | *09/05/12 09:09* | *09/06/12 13:09* | *1* |
| *Phenol-d5* | *86* | | *30 - 102* | *09/05/12 09:09* | *09/06/12 13:09* | *1* |
| *2-Fluorophenol* | *88* | | *26 - 100* | *09/05/12 09:09* | *09/06/12 13:09* | *1* |
| *2,4,6-Tribromophenol* | *79* | | *33 - 122* | *09/05/12 09:09* | *09/06/12 13:09* | *1* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-47296/2-A**
**Matrix: Water**
**Analysis Batch: 47584**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47296**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 200 | 156 | | ug/L | | 78 | 39 - 106 |
| Acenaphthylene | 200 | 171 | | ug/L | | 85 | 40 - 113 |
| Anthracene | 200 | 158 | | ug/L | | 79 | 37 - 108 |
| Benzo[a]anthracene | 200 | 179 | | ug/L | | 89 | 40 - 103 |
| Benzo[a]pyrene | 200 | 172 | | ug/L | | 86 | 37 - 105 |
| Benzo[b]fluoranthene | 200 | 151 | | ug/L | | 75 | 35 - 100 |
| Benzo[g,h,i]perylene | 200 | 165 | | ug/L | | 83 | 31 - 118 |
| Benzo[k]fluoranthene | 200 | 162 | | ug/L | | 81 | 37 - 108 |
| Bis(2-chloroethyl)ether | 200 | 142 | | ug/L | | 71 | 34 - 96 |
| Bis(2-chloroethoxy)methane | 200 | 152 | | ug/L | | 76 | 36 - 101 |
| bis (2-chloroisopropyl) ether | 200 | 130 | | ug/L | | 65 | 30 - 100 |
| Bis(2-ethylhexyl) phthalate | 200 | 179 | | ug/L | | 90 | 35 - 112 |
| 4-Bromophenyl phenyl ether | 200 | 163 | | ug/L | | 82 | 38 - 108 |
| Butyl benzyl phthalate | 200 | 180 | | ug/L | | 90 | 34 - 110 |
| Carbazole | 200 | 155 | | ug/L | | 78 | 35 - 113 |
| 4-Chloroaniline | 200 | 163 | | ug/L | | 81 | 26 - 99 |
| 2-Chloronaphthalene | 200 | 154 | | ug/L | | 77 | 37 - 102 |
| 4-Chlorophenyl phenyl ether | 200 | 161 | | ug/L | | 81 | 39 - 107 |
| Chrysene | 200 | 184 | | ug/L | | 92 | 39 - 103 |
| Dibenz(a,h)anthracene | 200 | 169 | | ug/L | | 84 | 32 - 117 |
| Dibenzofuran | 200 | 156 | | ug/L | | 78 | 37 - 107 |
| Di-n-butyl phthalate | 200 | 166 | | ug/L | | 83 | 36 - 113 |
| 3,3'-Dichlorobenzidine | 200 | 179 | | ug/L | | 90 | 11 - 106 |
| Diethyl phthalate | 200 | 163 | | ug/L | | 82 | 39 - 112 |
| Dimethyl phthalate | 200 | 165 | | ug/L | | 82 | 40 - 110 |
| 2,4-Dinitrotoluene | 200 | 171 | | ug/L | | 85 | 41 - 117 |
| 2,6-Dinitrotoluene | 200 | 170 | | ug/L | | 85 | 42 - 118 |
| Di-n-octyl phthalate | 200 | 178 | | ug/L | | 89 | 27 - 118 |
| Fluoranthene | 200 | 164 | | ug/L | | 82 | 35 - 111 |
| Fluorene | 200 | 165 | | ug/L | | 82 | 39 - 107 |
| Hexachlorobenzene | 200 | 172 | | ug/L | | 86 | 35 - 106 |
| Hexachlorobutadiene | 200 | 150 | | ug/L | | 75 | 30 - 103 |
| Hexachlorocyclopentadiene | 200 | 176 | | ug/L | | 88 | 19 - 116 |
| Hexachloroethane | 200 | 138 | | ug/L | | 69 | 27 - 94 |
| Indeno[1,2,3-cd]pyrene | 200 | 164 | | ug/L | | 82 | 32 - 116 |
| Isophorone | 200 | 166 | | ug/L | | 83 | 39 - 108 |
| 2-Methylnaphthalene | 200 | 149 | | ug/L | | 75 | 36 - 101 |
| Naphthalene | 200 | 148 | | ug/L | | 74 | 35 - 98 |
| 2-Nitroaniline | 200 | 151 | | ug/L | | 76 | 37 - 114 |
| 3-Nitroaniline | 200 | 163 | | ug/L | | 82 | 32 - 117 |
| 4-Nitroaniline | 200 | 167 | | ug/L | | 84 | 32 - 117 |
| Nitrobenzene | 200 | 148 | | ug/L | | 74 | 37 - 103 |
| N-Nitrosodi-n-propylamine | 200 | 145 | | ug/L | | 73 | 37 - 106 |
| N-Nitrosodiphenylamine | 200 | 169 | | ug/L | | 84 | 34 - 108 |
| Phenanthrene | 200 | 165 | | ug/L | | 82 | 34 - 107 |
| Pyrene | 200 | 172 | | ug/L | | 86 | 36 - 115 |
| 4-Chloro-3-methylphenol | 200 | 145 | | ug/L | | 72 | 40 - 107 |
| 2-Chlorophenol | 200 | 148 | | ug/L | | 74 | 34 - 100 |
| 2-Methylphenol | 200 | 147 | | ug/L | | 73 | 34 - 101 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-47296/2-A**
**Matrix: Water**
**Analysis Batch: 47584**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47296**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | | | 200 | 157 | | ug/L | | 78 | 34 - 106 | | |
| 2,4-Dimethylphenol | | | 200 | 156 | | ug/L | | 78 | 34 - 98 | | |
| 2,4-Dinitrophenol | | | 200 | 188 | | ug/L | | 94 | 3 - 125 | | |
| 4,6-Dinitro-2-methylphenol | | | 200 | 174 | | ug/L | | 87 | 24 - 121 | | |
| 2-Nitrophenol | | | 200 | 160 | | ug/L | | 80 | 33 - 108 | | |
| 4-Nitrophenol | | | 200 | 173 | | ug/L | | 86 | 29 - 120 | | |
| Pentachlorophenol | | | 200 | 162 | | ug/L | | 81 | 10 - 118 | | |
| Phenol | | | 200 | 147 | | ug/L | | 73 | 35 - 98 | | |
| 2,4,5-Trichlorophenol | | | 200 | 153 | | ug/L | | 77 | 31 - 111 | | |
| 2,4,6-Trichlorophenol | | | 200 | 169 | | ug/L | | 84 | 34 - 110 | | |
| Methylphenol, 3 & 4 | | | 400 | 325 | | ug/L | | 81 | 34 - 104 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *78* | | *37 - 104* |
| *2-Fluorobiphenyl* | *78* | | *35 - 108* |
| *Terphenyl-d14* | *94* | | *25 - 130* |
| *Phenol-d5* | *81* | | *30 - 102* |
| *2-Fluorophenol* | *83* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *94* | | *33 - 122* |

**Lab Sample ID: LCSD 180-47296/3-A**
**Matrix: Water**
**Analysis Batch: 47584**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47296**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | | | 200 | 149 | | ug/L | | 75 | 39 - 106 | 4 | 32 |
| Acenaphthylene | | | 200 | 165 | | ug/L | | 83 | 40 - 113 | 3 | 33 |
| Anthracene | | | 200 | 154 | | ug/L | | 77 | 37 - 108 | 3 | 40 |
| Benzo[a]anthracene | | | 200 | 175 | | ug/L | | 87 | 40 - 103 | 2 | 33 |
| Benzo[a]pyrene | | | 200 | 168 | | ug/L | | 84 | 37 - 105 | 3 | 35 |
| Benzo[b]fluoranthene | | | 200 | 147 | | ug/L | | 73 | 35 - 100 | 2 | 44 |
| Benzo[g,h,i]perylene | | | 200 | 161 | | ug/L | | 81 | 31 - 118 | 3 | 45 |
| Benzo[k]fluoranthene | | | 200 | 158 | | ug/L | | 79 | 37 - 108 | 3 | 42 |
| Bis(2-chloroethyl)ether | | | 200 | 131 | | ug/L | | 66 | 34 - 96 | 8 | 34 |
| Bis(2-chloroethoxy)methane | | | 200 | 142 | | ug/L | | 71 | 36 - 101 | 7 | 35 |
| bis (2-chloroisopropyl) ether | | | 200 | 121 | | ug/L | | 61 | 30 - 100 | 7 | 38 |
| Bis(2-ethylhexyl) phthalate | | | 200 | 169 | | ug/L | | 84 | 35 - 112 | 6 | 34 |
| 4-Bromophenyl phenyl ether | | | 200 | 153 | | ug/L | | 77 | 38 - 108 | 6 | 40 |
| Butyl benzyl phthalate | | | 200 | 170 | | ug/L | | 85 | 34 - 110 | 5 | 35 |
| Carbazole | | | 200 | 145 | | ug/L | | 73 | 35 - 113 | 7 | 32 |
| 4-Chloroaniline | | | 200 | 152 | | ug/L | | 76 | 26 - 99 | 7 | 55 |
| 2-Chloronaphthalene | | | 200 | 146 | | ug/L | | 73 | 37 - 102 | 5 | 34 |
| 4-Chlorophenyl phenyl ether | | | 200 | 158 | | ug/L | | 79 | 39 - 107 | 2 | 34 |
| Chrysene | | | 200 | 170 | | ug/L | | 85 | 39 - 103 | 8 | 38 |
| Dibenz(a,h)anthracene | | | 200 | 163 | | ug/L | | 82 | 32 - 117 | 3 | 43 |
| Dibenzofuran | | | 200 | 149 | | ug/L | | 75 | 37 - 107 | 4 | 32 |
| Di-n-butyl phthalate | | | 200 | 158 | | ug/L | | 79 | 36 - 113 | 5 | 39 |
| 3,3'-Dichlorobenzidine | | | 200 | 173 | | ug/L | | 87 | 11 - 106 | 3 | 56 |
| Diethyl phthalate | | | 200 | 155 | | ug/L | | 78 | 39 - 112 | 5 | 32 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-47296/3-A**
**Matrix: Water**
**Analysis Batch: 47584**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47296**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Dimethyl phthalate | | | 200 | 160 | | ug/L | | 80 | 40 - 110 | 3 | 33 |
| 2,4-Dinitrotoluene | | | 200 | 169 | | ug/L | | 84 | 41 - 117 | 1 | 32 |
| 2,6-Dinitrotoluene | | | 200 | 163 | | ug/L | | 81 | 42 - 118 | 4 | 33 |
| Di-n-octyl phthalate | | | 200 | 168 | | ug/L | | 84 | 27 - 118 | 5 | 36 |
| Fluoranthene | | | 200 | 159 | | ug/L | | 79 | 35 - 111 | 3 | 43 |
| Fluorene | | | 200 | 157 | | ug/L | | 79 | 39 - 107 | 5 | 33 |
| Hexachlorobenzene | | | 200 | 163 | | ug/L | | 82 | 35 - 106 | 5 | 36 |
| Hexachlorobutadiene | | | 200 | 144 | | ug/L | | 72 | 30 - 103 | 4 | 41 |
| Hexachlorocyclopentadiene | | | 200 | 170 | | ug/L | | 85 | 19 - 116 | 3 | 57 |
| Hexachloroethane | | | 200 | 128 | | ug/L | | 64 | 27 - 94 | 8 | 43 |
| Indeno[1,2,3-cd]pyrene | | | 200 | 158 | | ug/L | | 79 | 32 - 116 | 4 | 45 |
| Isophorone | | | 200 | 156 | | ug/L | | 78 | 39 - 108 | 6 | 36 |
| 2-Methylnaphthalene | | | 200 | 144 | | ug/L | | 72 | 36 - 101 | 3 | 35 |
| Naphthalene | | | 200 | 141 | | ug/L | | 71 | 35 - 98 | 5 | 39 |
| 2-Nitroaniline | | | 200 | 150 | | ug/L | | 75 | 37 - 114 | 1 | 33 |
| 3-Nitroaniline | | | 200 | 156 | | ug/L | | 78 | 32 - 117 | 4 | 46 |
| 4-Nitroaniline | | | 200 | 165 | | ug/L | | 83 | 32 - 117 | 1 | 39 |
| Nitrobenzene | | | 200 | 145 | | ug/L | | 72 | 37 - 103 | 2 | 34 |
| N-Nitrosodi-n-propylamine | | | 200 | 135 | | ug/L | | 68 | 37 - 106 | 7 | 36 |
| N-Nitrosodiphenylamine | | | 200 | 166 | | ug/L | | 83 | 34 - 108 | 2 | 42 |
| Phenanthrene | | | 200 | 156 | | ug/L | | 78 | 34 - 107 | 5 | 34 |
| Pyrene | | | 200 | 163 | | ug/L | | 81 | 36 - 115 | 5 | 38 |
| 4-Chloro-3-methylphenol | | | 200 | 146 | | ug/L | | 73 | 40 - 107 | 1 | 32 |
| 2-Chlorophenol | | | 200 | 139 | | ug/L | | 69 | 34 - 100 | 6 | 31 |
| 2-Methylphenol | | | 200 | 137 | | ug/L | | 68 | 34 - 101 | 7 | 34 |
| 2,4-Dichlorophenol | | | 200 | 152 | | ug/L | | 76 | 34 - 106 | 3 | 33 |
| 2,4-Dimethylphenol | | | 200 | 147 | | ug/L | | 74 | 34 - 98 | 6 | 34 |
| 2,4-Dinitrophenol | | | 200 | 188 | | ug/L | | 94 | 3 - 125 | 0 | 62 |
| 4,6-Dinitro-2-methylphenol | | | 200 | 166 | | ug/L | | 83 | 24 - 121 | 5 | 50 |
| 2-Nitrophenol | | | 200 | 151 | | ug/L | | 75 | 33 - 108 | 6 | 41 |
| 4-Nitrophenol | | | 200 | 158 | | ug/L | | 79 | 29 - 120 | 9 | 39 |
| Pentachlorophenol | | | 200 | 154 | | ug/L | | 77 | 10 - 118 | 5 | 49 |
| Phenol | | | 200 | 137 | | ug/L | | 68 | 35 - 98 | 7 | 35 |
| 2,4,5-Trichlorophenol | | | 200 | 144 | | ug/L | | 72 | 31 - 111 | 6 | 32 |
| 2,4,6-Trichlorophenol | | | 200 | 166 | | ug/L | | 83 | 34 - 110 | 1 | 35 |
| Methylphenol, 3 & 4 | | | 400 | 302 | | ug/L | | 75 | 34 - 104 | 7 | 34 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *74* | | *37 - 104* |
| *2-Fluorobiphenyl* | *76* | | *35 - 108* |
| *Terphenyl-d14* | *91* | | *25 - 130* |
| *Phenol-d5* | *75* | | *30 - 102* |
| *2-Fluorophenol* | *78* | | *26 - 100* |
| *2,4,6-Tribromophenol* | *89* | | *33 - 122* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-47585/1-A**
**Matrix: Solid**
**Analysis Batch: 47721**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47585**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 67 | 6.4 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Acetophenone | ND | | 330 | 27 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Acenaphthylene | ND | | 67 | 7.6 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Anthracene | ND | | 67 | 6.5 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Benzo[a]anthracene | ND | | 67 | 8.4 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Benzo[a]pyrene | ND | | 67 | 6.7 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Benzo[b]fluoranthene | ND | | 67 | 10 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Benzo[g,h,i]perylene | ND | | 67 | 6.6 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Benzo[k]fluoranthene | ND | | 67 | 13 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Bis(2-chloroethyl)ether | ND | | 67 | 9.0 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 330 | 22 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 67 | 7.2 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | | 670 | 54 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 330 | 29 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Butyl benzyl phthalate | ND | | 330 | 46 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Carbazole | ND | | 67 | 6.1 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 4-Chloroaniline | ND | | 330 | 27 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2-Chloronaphthalene | ND | | 67 | 7.0 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 330 | 37 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Chrysene | ND | | 67 | 7.9 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Dibenz(a,h)anthracene | ND | | 67 | 7.4 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Dibenzofuran | ND | | 330 | 33 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Di-n-butyl phthalate | ND | | 330 | 42 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 330 | 35 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Diethyl phthalate | ND | | 330 | 36 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Dimethyl phthalate | ND | | 330 | 36 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2,4-Dinitrotoluene | ND | | 330 | 27 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2,6-Dinitrotoluene | ND | | 330 | 34 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Di-n-octyl phthalate | ND | | 330 | 35 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Fluoranthene | ND | | 67 | 7.1 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Fluorene | ND | | 67 | 8.8 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Hexachlorobenzene | ND | | 67 | 7.1 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Hexachlorobutadiene | ND | | 67 | 7.5 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Hexachlorocyclopentadiene | ND | | 330 | 36 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Hexachloroethane | ND | | 330 | 24 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Indeno[1,2,3-cd]pyrene | ND | | 67 | 6.9 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Isophorone | ND | | 330 | 25 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2-Methylnaphthalene | ND | | 67 | 6.0 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Naphthalene | ND | | 67 | 5.7 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2-Nitroaniline | ND | | 1700 | 150 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 3-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 4-Nitroaniline | ND | | 1700 | 140 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Nitrobenzene | ND | | 670 | 28 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 67 | 7.8 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| N-Nitrosodiphenylamine | ND | | 330 | 31 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Phenanthrene | ND | | 67 | 11 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Pyrene | ND | | 67 | 6.7 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 4-Chloro-3-methylphenol | ND | | 330 | 31 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2-Chlorophenol | ND | | 330 | 27 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-47585/1-A**
**Matrix: Solid**
**Analysis Batch: 47721**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47585**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | ND | | 330 | 23 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2,4-Dichlorophenol | ND | | 67 | 6.7 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2,4-Dimethylphenol | ND | | 330 | 52 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2,4-Dinitrophenol | ND | | 1700 | 400 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 1700 | 130 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2-Nitrophenol | ND | | 330 | 37 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 4-Nitrophenol | ND | | 1700 | 120 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Pentachlorophenol | ND | | 330 | 30 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Phenol | ND | | 67 | 7.9 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2,4,5-Trichlorophenol | ND | | 330 | 36 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 2,4,6-Trichlorophenol | ND | | 330 | 50 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| 1,1'-Biphenyl | ND | | 330 | 30 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Caprolactam | ND | | 1700 | 250 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Benzaldehyde | ND | | 330 | 50 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Atrazine | ND | | 330 | 32 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |
| Methylphenol, 3 & 4 | ND | | 330 | 33 | ug/Kg | | 09/06/12 06:00 | 09/07/12 13:50 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *76* | | *25 - 104* | *09/06/12 06:00* | *09/07/12 13:50* | *1* |
| *2-Fluorobiphenyl* | *73* | | *35 - 105* | *09/06/12 06:00* | *09/07/12 13:50* | *1* |
| *Terphenyl-d14* | *91* | | *25 - 127* | *09/06/12 06:00* | *09/07/12 13:50* | *1* |
| *Phenol-d5* | *80* | | *25 - 105* | *09/06/12 06:00* | *09/07/12 13:50* | *1* |
| *2-Fluorophenol* | *84* | | *39 - 103* | *09/06/12 06:00* | *09/07/12 13:50* | *1* |
| *2,4,6-Tribromophenol* | *77* | | *35 - 124* | *09/06/12 06:00* | *09/07/12 13:50* | *1* |

**Lab Sample ID: LCS 180-47585/2-A**
**Matrix: Solid**
**Analysis Batch: 47721**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47585**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 6670 | 4850 | | ug/Kg | | 73 | 47 - 104 |
| Acenaphthylene | 6670 | 5240 | | ug/Kg | | 79 | 49 - 114 |
| Anthracene | 6670 | 4980 | | ug/Kg | | 75 | 45 - 112 |
| Benzo[a]anthracene | 6670 | 6100 | | ug/Kg | | 91 | 47 - 110 |
| Benzo[a]pyrene | 6670 | 5590 | | ug/Kg | | 84 | 47 - 112 |
| Benzo[b]fluoranthene | 6670 | 5380 | | ug/Kg | | 81 | 41 - 107 |
| Benzo[g,h,i]perylene | 6670 | 4860 | | ug/Kg | | 73 | 38 - 126 |
| Benzo[k]fluoranthene | 6670 | 4880 | | ug/Kg | | 73 | 44 - 115 |
| Bis(2-chloroethyl)ether | 6670 | 4300 | | ug/Kg | | 65 | 38 - 99 |
| Bis(2-chloroethoxy)methane | 6670 | 4680 | | ug/Kg | | 70 | 44 - 101 |
| bis (2-chloroisopropyl) ether | 6670 | 3960 | | ug/Kg | | 59 | 36 - 101 |
| Bis(2-ethylhexyl) phthalate | 6670 | 6020 | | ug/Kg | | 90 | 40 - 122 |
| 4-Bromophenyl phenyl ether | 6670 | 5090 | | ug/Kg | | 76 | 47 - 110 |
| Butyl benzyl phthalate | 6670 | 5970 | | ug/Kg | | 90 | 41 - 118 |
| Carbazole | 6670 | 4800 | | ug/Kg | | 72 | 45 - 114 |
| 4-Chloroaniline | 6670 | 4730 | | ug/Kg | | 71 | 25 - 108 |
| 2-Chloronaphthalene | 6670 | 4670 | | ug/Kg | | 70 | 46 - 101 |
| 4-Chlorophenyl phenyl ether | 6670 | 5260 | | ug/Kg | | 79 | 47 - 109 |
| Chrysene | 6670 | 5360 | | ug/Kg | | 80 | 46 - 111 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 180-47585/2-A**
**Matrix: Solid**
**Analysis Batch: 47721**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47585**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Dibenz(a,h)anthracene | 6670 | 5180 | | ug/Kg | | 78 | 39 - 127 |
| Dibenzofuran | 6670 | 4860 | | ug/Kg | | 73 | 46 - 104 |
| Di-n-butyl phthalate | 6670 | 5250 | | ug/Kg | | 79 | 43 - 121 |
| 3,3'-Dichlorobenzidine | 6670 | 5830 | | ug/Kg | | 87 | 19 - 122 |
| Diethyl phthalate | 6670 | 5110 | | ug/Kg | | 77 | 47 - 115 |
| Dimethyl phthalate | 6670 | 5150 | | ug/Kg | | 77 | 49 - 111 |
| 2,4-Dinitrotoluene | 6670 | 5380 | | ug/Kg | | 81 | 45 - 124 |
| 2,6-Dinitrotoluene | 6670 | 5320 | | ug/Kg | | 80 | 50 - 122 |
| Di-n-octyl phthalate | 6670 | 6250 | | ug/Kg | | 94 | 33 - 129 |
| Fluoranthene | 6670 | 5170 | | ug/Kg | | 78 | 40 - 120 |
| Fluorene | 6670 | 5200 | | ug/Kg | | 78 | 46 - 109 |
| Hexachlorobenzene | 6670 | 5460 | | ug/Kg | | 82 | 47 - 108 |
| Hexachlorobutadiene | 6670 | 4450 | | ug/Kg | | 67 | 43 - 107 |
| Hexachlorocyclopentadiene | 6670 | 5330 | | ug/Kg | | 80 | 23 - 129 |
| Hexachloroethane | 6670 | 4220 | | ug/Kg | | 63 | 37 - 97 |
| Indeno[1,2,3-cd]pyrene | 6670 | 5000 | | ug/Kg | | 75 | 41 - 125 |
| Isophorone | 6670 | 5070 | | ug/Kg | | 76 | 47 - 110 |
| 2-Methylnaphthalene | 6670 | 4660 | | ug/Kg | | 70 | 45 - 100 |
| Naphthalene | 6670 | 4590 | | ug/Kg | | 69 | 43 - 100 |
| 2-Nitroaniline | 6670 | 4790 | | ug/Kg | | 72 | 45 - 117 |
| 3-Nitroaniline | 6670 | 4960 | | ug/Kg | | 74 | 34 - 122 |
| 4-Nitroaniline | 6670 | 5100 | | ug/Kg | | 76 | 38 - 123 |
| Nitrobenzene | 6670 | 4610 | | ug/Kg | | 69 | 43 - 104 |
| N-Nitrosodi-n-propylamine | 6670 | 4530 | | ug/Kg | | 68 | 42 - 107 |
| N-Nitrosodiphenylamine | 6670 | 5210 | | ug/Kg | | 78 | 44 - 111 |
| Phenanthrene | 6670 | 5260 | | ug/Kg | | 79 | 43 - 108 |
| Pyrene | 6670 | 5690 | | ug/Kg | | 85 | 41 - 115 |
| 4-Chloro-3-methylphenol | 6670 | 4950 | | ug/Kg | | 74 | 47 - 109 |
| 2-Chlorophenol | 6670 | 4580 | | ug/Kg | | 69 | 40 - 101 |
| 2-Methylphenol | 6670 | 4410 | | ug/Kg | | 66 | 40 - 104 |
| 2,4-Dichlorophenol | 6670 | 4810 | | ug/Kg | | 72 | 47 - 105 |
| 2,4-Dimethylphenol | 6670 | 4730 | | ug/Kg | | 71 | 44 - 105 |
| 2,4-Dinitrophenol | 6670 | 5890 | | ug/Kg | | 88 | 10 - 146 |
| 4,6-Dinitro-2-methylphenol | 6670 | 5430 | | ug/Kg | | 81 | 24 - 134 |
| 2-Nitrophenol | 6670 | 4890 | | ug/Kg | | 73 | 46 - 106 |
| 4-Nitrophenol | 6670 | 5130 | | ug/Kg | | 77 | 36 - 127 |
| Pentachlorophenol | 6670 | 5140 | | ug/Kg | | 77 | 17 - 122 |
| Phenol | 6670 | 4560 | | ug/Kg | | 68 | 41 - 102 |
| 2,4,5-Trichlorophenol | 6670 | 4800 | | ug/Kg | | 72 | 48 - 108 |
| 2,4,6-Trichlorophenol | 6670 | 5300 | | ug/Kg | | 80 | 50 - 106 |
| Methylphenol, 3 & 4 | 13300 | 10100 | | ug/Kg | | 76 | 42 - 105 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *71* | | *25 - 104* |
| *2-Fluorobiphenyl* | *73* | | *35 - 105* |
| *Terphenyl-d14* | *96* | | *25 - 127* |
| *Phenol-d5* | *75* | | *25 - 105* |
| *2-Fluorophenol* | *77* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *85* | | *35 - 124* |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-47585/3-A**
**Matrix: Solid**
**Analysis Batch: 47721**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47585**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 6670 | 4860 | | ug/Kg | | 73 | 47 - 104 | 0 | 40 |
| Acenaphthylene | 6670 | 5470 | | ug/Kg | | 82 | 49 - 114 | 4 | 38 |
| Anthracene | 6670 | 5210 | | ug/Kg | | 78 | 45 - 112 | 5 | 42 |
| Benzo[a]anthracene | 6670 | 6080 | | ug/Kg | | 91 | 47 - 110 | 0 | 40 |
| Benzo[a]pyrene | 6670 | 5640 | | ug/Kg | | 85 | 47 - 112 | 1 | 42 |
| Benzo[b]fluoranthene | 6670 | 5220 | | ug/Kg | | 78 | 41 - 107 | 3 | 53 |
| Benzo[g,h,i]perylene | 6670 | 5170 | | ug/Kg | | 78 | 38 - 126 | 6 | 43 |
| Benzo[k]fluoranthene | 6670 | 5170 | | ug/Kg | | 77 | 44 - 115 | 6 | 44 |
| Bis(2-chloroethyl)ether | 6670 | 4390 | | ug/Kg | | 66 | 38 - 99 | 2 | 43 |
| Bis(2-chloroethoxy)methane | 6670 | 4860 | | ug/Kg | | 73 | 44 - 101 | 4 | 36 |
| bis (2-chloroisopropyl) ether | 6670 | 3920 | | ug/Kg | | 59 | 36 - 101 | 1 | 41 |
| Bis(2-ethylhexyl) phthalate | 6670 | 5870 | | ug/Kg | | 88 | 40 - 122 | 3 | 41 |
| 4-Bromophenyl phenyl ether | 6670 | 5310 | | ug/Kg | | 80 | 47 - 110 | 4 | 46 |
| Butyl benzyl phthalate | 6670 | 5950 | | ug/Kg | | 89 | 41 - 118 | 0 | 41 |
| Carbazole | 6670 | 5060 | | ug/Kg | | 76 | 45 - 114 | 5 | 36 |
| 4-Chloroaniline | 6670 | 5310 | | ug/Kg | | 80 | 25 - 108 | 12 | 36 |
| 2-Chloronaphthalene | 6670 | 4780 | | ug/Kg | | 72 | 46 - 101 | 2 | 40 |
| 4-Chlorophenyl phenyl ether | 6670 | 5330 | | ug/Kg | | 80 | 47 - 109 | 1 | 39 |
| Chrysene | 6670 | 5540 | | ug/Kg | | 83 | 46 - 111 | 3 | 39 |
| Dibenz(a,h)anthracene | 6670 | 5270 | | ug/Kg | | 79 | 39 - 127 | 2 | 45 |
| Dibenzofuran | 6670 | 5040 | | ug/Kg | | 76 | 46 - 104 | 4 | 38 |
| Di-n-butyl phthalate | 6670 | 5430 | | ug/Kg | | 81 | 43 - 121 | 3 | 38 |
| 3,3'-Dichlorobenzidine | 6670 | 5850 | | ug/Kg | | 88 | 19 - 122 | 0 | 40 |
| Diethyl phthalate | 6670 | 5280 | | ug/Kg | | 79 | 47 - 115 | 3 | 38 |
| Dimethyl phthalate | 6670 | 5380 | | ug/Kg | | 81 | 49 - 111 | 4 | 37 |
| 2,4-Dinitrotoluene | 6670 | 5510 | | ug/Kg | | 83 | 45 - 124 | 2 | 41 |
| 2,6-Dinitrotoluene | 6670 | 5480 | | ug/Kg | | 82 | 50 - 122 | 3 | 40 |
| Di-n-octyl phthalate | 6670 | 6250 | | ug/Kg | | 94 | 33 - 129 | 0 | 41 |
| Fluoranthene | 6670 | 5400 | | ug/Kg | | 81 | 40 - 120 | 4 | 36 |
| Fluorene | 6670 | 5220 | | ug/Kg | | 78 | 46 - 109 | 0 | 40 |
| Hexachlorobenzene | 6670 | 5690 | | ug/Kg | | 85 | 47 - 108 | 4 | 43 |
| Hexachlorobutadiene | 6670 | 4880 | | ug/Kg | | 73 | 43 - 107 | 9 | 39 |
| Hexachlorocyclopentadiene | 6670 | 5590 | | ug/Kg | | 84 | 23 - 129 | 5 | 49 |
| Hexachloroethane | 6670 | 4240 | | ug/Kg | | 64 | 37 - 97 | 0 | 48 |
| Indeno[1,2,3-cd]pyrene | 6670 | 5150 | | ug/Kg | | 77 | 41 - 125 | 3 | 47 |
| Isophorone | 6670 | 5250 | | ug/Kg | | 79 | 47 - 110 | 3 | 37 |
| 2-Methylnaphthalene | 6670 | 4950 | | ug/Kg | | 74 | 45 - 100 | 6 | 40 |
| Naphthalene | 6670 | 4800 | | ug/Kg | | 72 | 43 - 100 | 5 | 32 |
| 2-Nitroaniline | 6670 | 5040 | | ug/Kg | | 76 | 45 - 117 | 5 | 42 |
| 3-Nitroaniline | 6670 | 5270 | | ug/Kg | | 79 | 34 - 122 | 6 | 39 |
| 4-Nitroaniline | 6670 | 5500 | | ug/Kg | | 83 | 38 - 123 | 8 | 40 |
| Nitrobenzene | 6670 | 4810 | | ug/Kg | | 72 | 43 - 104 | 4 | 33 |
| N-Nitrosodi-n-propylamine | 6670 | 4520 | | ug/Kg | | 68 | 42 - 107 | 0 | 43 |
| N-Nitrosodiphenylamine | 6670 | 5400 | | ug/Kg | | 81 | 44 - 111 | 4 | 40 |
| Phenanthrene | 6670 | 5390 | | ug/Kg | | 81 | 43 - 108 | 2 | 39 |
| Pyrene | 6670 | 5610 | | ug/Kg | | 84 | 41 - 115 | 1 | 43 |
| 4-Chloro-3-methylphenol | 6670 | 5140 | | ug/Kg | | 77 | 47 - 109 | 4 | 36 |
| 2-Chlorophenol | 6670 | 4600 | | ug/Kg | | 69 | 40 - 101 | 1 | 42 |
| 2-Methylphenol | 6670 | 4700 | | ug/Kg | | 70 | 40 - 104 | 6 | 41 |

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-47585/3-A**
**Matrix: Solid**
**Analysis Batch: 47721**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47585**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | | | 6670 | 5210 | | ug/Kg | | 78 | 47 - 105 | 8 | 35 |
| 2,4-Dimethylphenol | | | 6670 | 4920 | | ug/Kg | | 74 | 44 - 105 | 4 | 49 |
| 2,4-Dinitrophenol | | | 6670 | 6430 | | ug/Kg | | 96 | 10 - 146 | 9 | 83 |
| 4,6-Dinitro-2-methylphenol | | | 6670 | 5720 | | ug/Kg | | 86 | 24 - 134 | 5 | 87 |
| 2-Nitrophenol | | | 6670 | 5150 | | ug/Kg | | 77 | 46 - 106 | 5 | 39 |
| 4-Nitrophenol | | | 6670 | 5070 | | ug/Kg | | 76 | 36 - 127 | 1 | 43 |
| Pentachlorophenol | | | 6670 | 5270 | | ug/Kg | | 79 | 17 - 122 | 2 | 52 |
| Phenol | | | 6670 | 4600 | | ug/Kg | | 69 | 41 - 102 | 1 | 39 |
| 2,4,5-Trichlorophenol | | | 6670 | 5270 | | ug/Kg | | 79 | 48 - 108 | 9 | 44 |
| 2,4,6-Trichlorophenol | | | 6670 | 5270 | | ug/Kg | | 79 | 50 - 106 | 1 | 42 |
| Methylphenol, 3 & 4 | | | 13300 | 10100 | | ug/Kg | | 76 | 42 - 105 | 0 | 43 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *73* | | *25 - 104* |
| *2-Fluorobiphenyl* | *73* | | *35 - 105* |
| *Terphenyl-d14* | *95* | | *25 - 127* |
| *Phenol-d5* | *75* | | *25 - 105* |
| *2-Fluorophenol* | *78* | | *39 - 103* |
| *2,4,6-Tribromophenol* | *90* | | *35 - 124* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

**Lab Sample ID: MB 180-47638/1-A**
**Matrix: Solid**
**Analysis Batch: 48036**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47638**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.010 | 0.00024 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| Pyridine | ND | | 0.020 | 0.00017 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.010 | 0.00021 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| Hexachlorobenzene | ND | | 0.010 | 0.00023 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| Hexachlorobutadiene | ND | | 0.010 | 0.00025 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| Hexachloroethane | ND | | 0.010 | 0.00025 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| Nitrobenzene | ND | | 0.010 | 0.00026 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| 2-Methylphenol | ND | | 0.010 | 0.00028 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| Pentachlorophenol | ND | | 0.050 | 0.00044 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.010 | 0.00026 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.010 | 0.00022 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.010 | 0.00054 | mg/L | | 09/07/12 12:51 | 09/11/12 02:16 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *50* | | *39 - 115* | *09/07/12 12:51* | *09/11/12 02:16* | *1* |
| *2-Fluorobiphenyl* | *47* | | *35 - 115* | *09/07/12 12:51* | *09/11/12 02:16* | *1* |
| *Terphenyl-d14* | *71* | | *30 - 143* | *09/07/12 12:51* | *09/11/12 02:16* | *1* |
| *Phenol-d5* | *51* | | *30 - 118* | *09/07/12 12:51* | *09/11/12 02:16* | *1* |
| *2-Fluorophenol* | *49* | | *20 - 110* | *09/07/12 12:51* | *09/11/12 02:16* | *1* |
| *2,4,6-Tribromophenol* | *51* | | *19 - 138* | *09/07/12 12:51* | *09/11/12 02:16* | *1* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCS 180-47638/2-A**
**Matrix: Solid**
**Analysis Batch: 48036**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47638**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | | | 0.200 | 0.113 | | mg/L | | 57 | 37 - 115 | | |
| Pyridine | | | 0.200 | 0.119 | | mg/L | | 59 | 22 - 105 | | |
| 2,4-Dinitrotoluene | | | 0.200 | 0.121 | | mg/L | | 60 | 40 - 115 | | |
| Hexachlorobenzene | | | 0.200 | 0.125 | | mg/L | | 62 | 45 - 115 | | |
| Hexachlorobutadiene | | | 0.200 | 0.116 | | mg/L | | 58 | 42 - 115 | | |
| Hexachloroethane | | | 0.200 | 0.118 | | mg/L | | 59 | 25 - 106 | | |
| Nitrobenzene | | | 0.200 | 0.111 | | mg/L | | 55 | 40 - 115 | | |
| 2-Methylphenol | | | 0.200 | 0.120 | | mg/L | | 60 | 43 - 115 | | |
| Pentachlorophenol | | | 0.200 | 0.122 | | mg/L | | 61 | 16 - 140 | | |
| 2,4,5-Trichlorophenol | | | 0.200 | 0.116 | | mg/L | | 58 | 35 - 115 | | |
| 2,4,6-Trichlorophenol | | | 0.200 | 0.118 | | mg/L | | 59 | 40 - 115 | | |
| Methylphenol, 3 & 4 | | | 0.400 | 0.256 | | mg/L | | 64 | 30 - 121 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *61* | | *39 - 115* |
| *2-Fluorobiphenyl* | *60* | | *35 - 115* |
| *Terphenyl-d14* | *79* | | *30 - 143* |
| *Phenol-d5* | *65* | | *30 - 118* |
| *2-Fluorophenol* | *64* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *68* | | *19 - 138* |

**Lab Sample ID: LCSD 180-47638/3-A**
**Matrix: Solid**
**Analysis Batch: 48036**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47638**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | | | 0.200 | 0.101 | | mg/L | | 51 | 37 - 115 | 11 | 35 |
| Pyridine | | | 0.200 | 0.00719 | J * | mg/L | | 4 | 22 - 105 | 177 | 40 |
| 2,4-Dinitrotoluene | | | 0.200 | 0.112 | | mg/L | | 56 | 40 - 115 | 8 | 42 |
| Hexachlorobenzene | | | 0.200 | 0.115 | | mg/L | | 58 | 45 - 115 | 8 | 22 |
| Hexachlorobutadiene | | | 0.200 | 0.103 | | mg/L | | 51 | 42 - 115 | 12 | 28 |
| Hexachloroethane | | | 0.200 | 0.101 | | mg/L | | 50 | 25 - 106 | 16 | 38 |
| Nitrobenzene | | | 0.200 | 0.103 | | mg/L | | 51 | 40 - 115 | 8 | 26 |
| 2-Methylphenol | | | 0.200 | 0.107 | | mg/L | | 53 | 43 - 115 | 11 | 47 |
| Pentachlorophenol | | | 0.200 | 0.112 | | mg/L | | 56 | 16 - 140 | 9 | 40 |
| 2,4,5-Trichlorophenol | | | 0.200 | 0.100 | | mg/L | | 50 | 35 - 115 | 15 | 40 |
| 2,4,6-Trichlorophenol | | | 0.200 | 0.103 | | mg/L | | 51 | 40 - 115 | 14 | 37 |
| Methylphenol, 3 & 4 | | | 0.400 | 0.228 | | mg/L | | 57 | 30 - 121 | 12 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *54* | | *39 - 115* |
| *2-Fluorobiphenyl* | *52* | | *35 - 115* |
| *Terphenyl-d14* | *70* | | *30 - 143* |
| *Phenol-d5* | *56* | | *30 - 118* |
| *2-Fluorophenol* | *54* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *65* | | *19 - 138* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: MB 180-47683/1-A**
**Matrix: Solid**
**Analysis Batch: 47889**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47683**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 09/07/12 15:15 | 09/10/12 07:36 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *95* | | *39 - 115* | *09/07/12 15:15* | *09/10/12 07:36* | *1* |
| *2-Fluorobiphenyl* | *87* | | *35 - 115* | *09/07/12 15:15* | *09/10/12 07:36* | *1* |
| *Terphenyl-d14* | *116* | | *30 - 143* | *09/07/12 15:15* | *09/10/12 07:36* | *1* |
| *Phenol-d5* | *108* | | *30 - 118* | *09/07/12 15:15* | *09/10/12 07:36* | *1* |
| *2-Fluorophenol* | *106* | | *20 - 110* | *09/07/12 15:15* | *09/10/12 07:36* | *1* |
| *2,4,6-Tribromophenol* | *93* | | *19 - 138* | *09/07/12 15:15* | *09/10/12 07:36* | *1* |

**Lab Sample ID: LCS 180-47683/2-A**
**Matrix: Solid**
**Analysis Batch: 47889**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47683**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | 0.250 | 0.233 | | mg/L | | 93 | 37 - 115 |
| Pyridine | 0.250 | 0.279 | * | mg/L | | 111 | 22 - 105 |
| 2,4-Dinitrotoluene | 0.250 | 0.189 | | mg/L | | 76 | 40 - 115 |
| Hexachlorobenzene | 0.250 | 0.222 | | mg/L | | 89 | 45 - 115 |
| Hexachlorobutadiene | 0.250 | 0.212 | | mg/L | | 85 | 42 - 115 |
| Hexachloroethane | 0.250 | 0.206 | | mg/L | | 83 | 25 - 106 |
| Nitrobenzene | 0.250 | 0.222 | | mg/L | | 89 | 40 - 115 |
| 2-Methylphenol | 0.250 | 0.245 | | mg/L | | 98 | 43 - 115 |
| Pentachlorophenol | 0.250 | 0.0885 | J | mg/L | | 35 | 16 - 140 |
| 2,4,5-Trichlorophenol | 0.250 | 0.196 | | mg/L | | 78 | 35 - 115 |
| 2,4,6-Trichlorophenol | 0.250 | 0.213 | | mg/L | | 85 | 40 - 115 |
| Methylphenol, 3 & 4 | 0.500 | 0.524 | | mg/L | | 105 | 30 - 121 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *92* | | *39 - 115* |
| *2-Fluorobiphenyl* | *81* | | *35 - 115* |
| *Terphenyl-d14* | *109* | | *30 - 143* |
| *Phenol-d5* | *109* | | *30 - 118* |
| *2-Fluorophenol* | *110* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *90* | | *19 - 138* |

## Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

**Lab Sample ID: LCSD 180-47683/3-A**
**Matrix: Solid**
**Analysis Batch: 47889**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47683**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | | | 0.250 | 0.225 | | mg/L | | 90 | 37 - 115 | 3 | 35 |
| Pyridine | | | 0.250 | 0.268 | * | mg/L | | 107 | 22 - 105 | 4 | 40 |
| 2,4-Dinitrotoluene | | | 0.250 | 0.197 | | mg/L | | 79 | 40 - 115 | 4 | 42 |
| Hexachlorobenzene | | | 0.250 | 0.218 | | mg/L | | 87 | 45 - 115 | 2 | 22 |
| Hexachlorobutadiene | | | 0.250 | 0.217 | | mg/L | | 87 | 42 - 115 | 2 | 28 |
| Hexachloroethane | | | 0.250 | 0.203 | | mg/L | | 81 | 25 - 106 | 2 | 38 |
| Nitrobenzene | | | 0.250 | 0.220 | | mg/L | | 88 | 40 - 115 | 1 | 26 |
| 2-Methylphenol | | | 0.250 | 0.238 | | mg/L | | 95 | 43 - 115 | 3 | 47 |
| Pentachlorophenol | | | 0.250 | 0.0829 | J | mg/L | | 33 | 16 - 140 | 7 | 40 |
| 2,4,5-Trichlorophenol | | | 0.250 | 0.210 | | mg/L | | 84 | 35 - 115 | 7 | 40 |
| 2,4,6-Trichlorophenol | | | 0.250 | 0.208 | | mg/L | | 83 | 40 - 115 | 2 | 37 |
| Methylphenol, 3 & 4 | | | 0.500 | 0.511 | | mg/L | | 102 | 30 - 121 | 3 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *89* | | *39 - 115* |
| *2-Fluorobiphenyl* | *82* | | *35 - 115* |
| *Terphenyl-d14* | *106* | | *30 - 143* |
| *Phenol-d5* | *105* | | *30 - 118* |
| *2-Fluorophenol* | *105* | | *20 - 110* |
| *2,4,6-Tribromophenol* | *87* | | *19 - 138* |

**Lab Sample ID: LB 180-47416/18-F LB**
**Matrix: Solid**
**Analysis Batch: 48036**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 47683**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ND | | 0.050 | 0.0012 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| Pyridine | ND | | 0.10 | 0.00083 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| 2,4-Dinitrotoluene | ND | | 0.050 | 0.0010 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| Hexachlorobenzene | ND | | 0.050 | 0.0011 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| Hexachlorobutadiene | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| Hexachloroethane | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| Nitrobenzene | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| 2-Methylphenol | ND | | 0.050 | 0.0014 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| Pentachlorophenol | ND | | 0.25 | 0.0022 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| 2,4,5-Trichlorophenol | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| 2,4,6-Trichlorophenol | ND | | 0.050 | 0.0011 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |
| Methylphenol, 3 & 4 | ND | | 0.050 | 0.0027 | mg/L | | 09/07/12 15:15 | 09/11/12 02:37 | 1 |

| *Surrogate* | *LB %Recovery* | *LB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *72* | | *39 - 115* | *09/07/12 15:15* | *09/11/12 02:37* | *1* |
| *2-Fluorobiphenyl* | *68* | | *35 - 115* | *09/07/12 15:15* | *09/11/12 02:37* | *1* |
| *Terphenyl-d14* | *98* | | *30 - 143* | *09/07/12 15:15* | *09/11/12 02:37* | *1* |
| *Phenol-d5* | *78* | | *30 - 118* | *09/07/12 15:15* | *09/11/12 02:37* | *1* |
| *2-Fluorophenol* | *75* | | *20 - 110* | *09/07/12 15:15* | *09/11/12 02:37* | *1* |
| *2,4,6-Tribromophenol* | *70* | | *19 - 138* | *09/07/12 15:15* | *09/11/12 02:37* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-249220/5**
**Matrix: Solid**
**Analysis Batch: 249220**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 5.0 | 0.38 | mg/Kg | | | 09/10/12 13:47 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* | | *09/10/12 13:47* | *20* |

**Lab Sample ID: MB 680-249220/7**
**Matrix: Solid**
**Analysis Batch: 249220**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 09/10/12 16:08 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *89* | | *70 - 131* | | *09/10/12 16:08* | *1* |

**Lab Sample ID: LCS 680-249220/11**
**Matrix: Solid**
**Analysis Batch: 249220**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.891 | | mg/Kg | | 89 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *75* | | *70 - 131* |

**Lab Sample ID: LCSD 680-249220/8**
**Matrix: Solid**
**Analysis Batch: 249220**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.861 | | mg/Kg | | 86 | 64 - 133 | 3 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *100* | | *70 - 131* |

**Lab Sample ID: MB 680-249355/3**
**Matrix: Water**
**Analysis Batch: 249355**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/11/12 12:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *98* | | *70 - 130* | | *09/11/12 12:43* | *1* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCS 680-249355/4**
**Matrix: Water**
**Analysis Batch: 249355**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.214 | | mg/L | | 107 | 70 - 148 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *105* | | *70 - 130* |

**Lab Sample ID: LCSD 680-249355/5**
**Matrix: Water**
**Analysis Batch: 249355**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.199 | | mg/L | | 99 | 70 - 148 | 7 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *101* | | *70 - 130* |

**Lab Sample ID: MB 680-249451/3**
**Matrix: Solid**
**Analysis Batch: 249451**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 09/11/12 18:54 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 131* | | *09/11/12 18:54* | *1* |

**Lab Sample ID: LCS 680-249451/4**
**Matrix: Solid**
**Analysis Batch: 249451**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.851 | | mg/Kg | | 85 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 131* |

**Lab Sample ID: LCSD 680-249451/7**
**Matrix: Solid**
**Analysis Batch: 249451**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.890 | | mg/Kg | | 89 | 64 - 133 | 4 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *90* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: MB 680-249486/3**
**Matrix: Water**
**Analysis Batch: 249486**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/12/12 11:13 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *95* | | *70 - 130* | | *09/12/12 11:13* | *1* |

**Lab Sample ID: LCS 680-249486/4**
**Matrix: Water**
**Analysis Batch: 249486**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.198 | | mg/L | | 99 | 70 - 148 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *102* | | *70 - 130* |

**Lab Sample ID: LCSD 680-249486/5**
**Matrix: Water**
**Analysis Batch: 249486**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.199 | | mg/L | | 100 | 70 - 148 | 0 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *102* | | *70 - 130* |

**Lab Sample ID: MB 680-249523/3**
**Matrix: Solid**
**Analysis Batch: 249523**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.25 | 0.019 | mg/Kg | | | 09/12/12 15:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* | | *09/12/12 15:05* | *1* |

**Lab Sample ID: LCS 680-249523/4**
**Matrix: Solid**
**Analysis Batch: 249523**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.914 | | mg/Kg | | 91 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *103* | | *70 - 131* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-249523/5**
**Matrix: Solid**
**Analysis Batch: 249523**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 1.00 | 0.914 | | mg/Kg | | 91 | 64 - 133 | 0 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *105* | | *70 - 131* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-248581/9-A**
**Matrix: Water**
**Analysis Batch: 249452**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 248581**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 09/04/12 15:31 | 09/06/12 17:47 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *84* | | *62 - 130* | *09/04/12 15:31* | *09/06/12 17:47* | *1* |

**Lab Sample ID: LCS 680-248581/10-A**
**Matrix: Water**
**Analysis Batch: 249452**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 248581**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 1.00 | 0.590 | | mg/L | | 59 | 25 - 145 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *69* | | *62 - 130* |

**Lab Sample ID: LCSD 680-248581/11-A**
**Matrix: Water**
**Analysis Batch: 249452**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 248581**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | | 1.00 | 0.645 | | mg/L | | 64 | 25 - 145 | 9 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *75* | | *62 - 130* |

**Lab Sample ID: MB 680-248590/15-A**
**Matrix: Solid**
**Analysis Batch: 249442**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 248590**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 09/04/12 14:31 | 09/06/12 12:24 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 680-248590/16-A**
**Matrix: Solid**
**Analysis Batch: 249442**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 248590**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.2 | 23.8 | | mg/Kg | | 72 | 19 - 171 |

**Lab Sample ID: MB 680-249489/7-A**
**Matrix: Water**
**Analysis Batch: 249743**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 249489**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 09/12/12 14:58 | 09/13/12 16:09 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *87* | | *62 - 130* | *09/12/12 14:58* | *09/13/12 16:09* | *1* |

**Lab Sample ID: LCS 680-249489/8-A**
**Matrix: Water**
**Analysis Batch: 249743**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 249489**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.00 | 0.728 | | mg/L | | 73 | 25 - 145 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *84* | | *62 - 130* |

**Lab Sample ID: LCSD 680-249489/9-A**
**Matrix: Water**
**Analysis Batch: 249743**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 249489**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.00 | 0.591 | | mg/L | | 59 | 25 - 145 | 21 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *76* | | *62 - 130* |

**Lab Sample ID: MB 680-249547/8-D**
**Matrix: Solid**
**Analysis Batch: 249748**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 249547**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 3.3 | 2.1 | mg/Kg | | 09/13/12 13:37 | 09/13/12 19:38 | 1 |

**Lab Sample ID: LCS 680-249547/9-D**
**Matrix: Solid**
**Analysis Batch: 249748**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 249547**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 32.9 | 29.4 | | mg/Kg | | 90 | 19 - 171 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

**Lab Sample ID: MB 180-47087/1-A**
**Matrix: Water**
**Analysis Batch: 48883**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47087**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.40 | 0.10 | ug/L | | 09/01/12 07:45 | 09/12/12 19:01 | 1 |
| PCB-1221 | ND | | 0.40 | 0.10 | ug/L | | 09/01/12 07:45 | 09/12/12 19:01 | 1 |
| PCB-1232 | ND | | 0.40 | 0.12 | ug/L | | 09/01/12 07:45 | 09/12/12 19:01 | 1 |
| PCB-1242 | ND | | 0.40 | 0.074 | ug/L | | 09/01/12 07:45 | 09/12/12 19:01 | 1 |
| PCB-1248 | ND | | 0.40 | 0.091 | ug/L | | 09/01/12 07:45 | 09/12/12 19:01 | 1 |
| PCB-1254 | ND | | 0.40 | 0.092 | ug/L | | 09/01/12 07:45 | 09/12/12 19:01 | 1 |
| PCB-1260 | ND | | 0.40 | 0.054 | ug/L | | 09/01/12 07:45 | 09/12/12 19:01 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *75* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 19:01* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *82* | | *35 - 140* | *09/01/12 07:45* | *09/12/12 19:01* | *1* |

**Lab Sample ID: LCS 180-47087/2-A**
**Matrix: Water**
**Analysis Batch: 48883**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47087**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 40.0 | 34.4 | | ug/L | | 86 | 60 - 130 | | |
| PCB-1260 | | | 40.0 | 36.6 | | ug/L | | 91 | 60 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *84* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *90* | | *35 - 140* |

**Lab Sample ID: LCSD 180-47087/3-A**
**Matrix: Water**
**Analysis Batch: 48883**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47087**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 40.0 | 33.0 | | ug/L | | 83 | 60 - 130 | 4 | 27 |
| PCB-1260 | | | 40.0 | 35.0 | | ug/L | | 87 | 60 - 130 | 4 | 24 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *80* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *87* | | *35 - 140* |

**Lab Sample ID: MB 180-47586/1-A**
**Matrix: Solid**
**Analysis Batch: 48224**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47586**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 09/06/12 05:45 | 09/08/12 07:36 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 09/06/12 05:45 | 09/08/12 07:36 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 09/06/12 05:45 | 09/08/12 07:36 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 09/06/12 05:45 | 09/08/12 07:36 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 09/06/12 05:45 | 09/08/12 07:36 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 09/06/12 05:45 | 09/08/12 07:36 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 09/06/12 05:45 | 09/08/12 07:36 | 1 |

## Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

**Lab Sample ID: MB 180-47586/1-A**
**Matrix: Solid**
**Analysis Batch: 48224**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47586**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *95* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 07:36* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *97* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 07:36* | *1* |

**Lab Sample ID: MB 180-47586/1-D**
**Matrix: Solid**
**Analysis Batch: 48147**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47586**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 17 | 2.5 | ug/Kg | | 09/06/12 05:45 | 09/08/12 02:42 | 1 |
| PCB-1221 | ND | | 17 | 3.2 | ug/Kg | | 09/06/12 05:45 | 09/08/12 02:42 | 1 |
| PCB-1232 | ND | | 17 | 2.9 | ug/Kg | | 09/06/12 05:45 | 09/08/12 02:42 | 1 |
| PCB-1242 | ND | | 17 | 2.7 | ug/Kg | | 09/06/12 05:45 | 09/08/12 02:42 | 1 |
| PCB-1248 | ND | | 17 | 1.6 | ug/Kg | | 09/06/12 05:45 | 09/08/12 02:42 | 1 |
| PCB-1254 | ND | | 17 | 2.4 | ug/Kg | | 09/06/12 05:45 | 09/08/12 02:42 | 1 |
| PCB-1260 | ND | | 17 | 2.4 | ug/Kg | | 09/06/12 05:45 | 09/08/12 02:42 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *Tetrachloro-m-xylene* | *94* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 02:42* | *1* |
| *DCB Decachlorobiphenyl (Surr)* | *95* | | *35 - 140* | *09/06/12 05:45* | *09/08/12 02:42* | *1* |

**Lab Sample ID: LCS 180-47586/2-A**
**Matrix: Solid**
**Analysis Batch: 48224**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47586**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1180 | | ug/Kg | | 88 | 55 - 130 | | |
| PCB-1260 | | | 1330 | 1270 | | ug/Kg | | 95 | 54 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *96* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *99* | | *35 - 140* |

**Lab Sample ID: LCS 180-47586/2-D**
**Matrix: Solid**
**Analysis Batch: 48147**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47586**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | | | 1330 | 1180 | | ug/Kg | | 88 | 55 - 130 | | |
| PCB-1260 | | | 1330 | 1260 | | ug/Kg | | 94 | 54 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *Tetrachloro-m-xylene* | *96* | | *35 - 140* |
| *DCB Decachlorobiphenyl (Surr)* | *99* | | *35 - 140* |

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 180-47155/1-A**
**Matrix: Water**
**Analysis Batch: 47448**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47155**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 10 | 2.7 | ug/L | | 09/04/12 09:06 | 09/05/12 15:12 | 1 |
| Barium | ND | | 200 | 0.62 | ug/L | | 09/04/12 09:06 | 09/05/12 15:12 | 1 |
| Cadmium | ND | | 5.0 | 0.13 | ug/L | | 09/04/12 09:06 | 09/05/12 15:12 | 1 |
| Chromium | ND | | 5.0 | 0.57 | ug/L | | 09/04/12 09:06 | 09/05/12 15:12 | 1 |
| Lead | ND | | 3.0 | 1.3 | ug/L | | 09/04/12 09:06 | 09/05/12 15:12 | 1 |
| Selenium | ND | | 5.0 | 3.0 | ug/L | | 09/04/12 09:06 | 09/05/12 15:12 | 1 |
| Silver | ND | | 5.0 | 0.68 | ug/L | | 09/04/12 09:06 | 09/05/12 15:12 | 1 |

**Lab Sample ID: LCS 180-47155/2-A**
**Matrix: Water**
**Analysis Batch: 47448**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47155**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 500 | 532 | | ug/L | | 106 | 80 - 120 |
| Barium | 2000 | 1920 | | ug/L | | 96 | 80 - 120 |
| Cadmium | 50.0 | 49.9 | | ug/L | | 100 | 80 - 120 |
| Chromium | 200 | 201 | | ug/L | | 100 | 80 - 120 |
| Lead | 500 | 520 | | ug/L | | 104 | 80 - 120 |
| Selenium | 500 | 541 | | ug/L | | 108 | 80 - 120 |
| Silver | 50.0 | 50.6 | | ug/L | | 101 | 80 - 120 |

**Lab Sample ID: MB 180-47635/1-A**
**Matrix: Solid**
**Analysis Batch: 47826**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47635**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 09/07/12 11:55 | 09/09/12 21:05 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 09/07/12 11:55 | 09/09/12 21:05 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 09/07/12 11:55 | 09/09/12 21:05 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 09/07/12 11:55 | 09/09/12 21:05 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 11:55 | 09/09/12 21:05 | 1 |
| Selenium | ND | | 0.050 | 0.0030 | mg/L | | 09/07/12 11:55 | 09/09/12 21:05 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 09/07/12 11:55 | 09/09/12 21:05 | 1 |

**Lab Sample ID: LCS 180-47635/2-A**
**Matrix: Solid**
**Analysis Batch: 47826**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47635**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.500 | 0.533 | | mg/L | | 107 | 80 - 120 |
| Barium | 2.00 | 1.97 | | mg/L | | 98 | 80 - 120 |
| Cadmium | 0.0500 | 0.0495 | J | mg/L | | 99 | 80 - 120 |
| Chromium | 0.200 | 0.198 | | mg/L | | 99 | 80 - 120 |
| Lead | 0.500 | 0.489 | | mg/L | | 98 | 80 - 120 |
| Selenium | 0.500 | 0.558 | | mg/L | | 112 | 80 - 120 |
| Silver | 0.0500 | 0.0536 | | mg/L | | 107 | 80 - 120 |

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 180-47816/1-A**
**Matrix: Solid**
**Analysis Batch: 48061**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47816**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Barium | ND | | 20 | 0.050 | mg/Kg | | 09/10/12 10:21 | 09/11/12 21:37 | 1 |
| Cadmium | ND | | 0.50 | 0.024 | mg/Kg | | 09/10/12 10:21 | 09/11/12 21:37 | 1 |
| Chromium | ND | | 0.50 | 0.085 | mg/Kg | | 09/10/12 10:21 | 09/11/12 21:37 | 1 |
| Lead | ND | | 0.30 | 0.15 | mg/Kg | | 09/10/12 10:21 | 09/11/12 21:37 | 1 |
| Silver | ND | | 0.50 | 0.058 | mg/Kg | | 09/10/12 10:21 | 09/11/12 21:37 | 1 |

**Lab Sample ID: MB 180-47816/1-A**
**Matrix: Solid**
**Analysis Batch: 48241**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47816**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 1.0 | 0.22 | mg/Kg | | 09/10/12 10:21 | 09/12/12 18:17 | 1 |
| Selenium | 0.297 | J | 0.50 | 0.21 | mg/Kg | | 09/10/12 10:21 | 09/12/12 18:17 | 1 |

**Lab Sample ID: LCS 180-47816/2-A**
**Matrix: Solid**
**Analysis Batch: 48061**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47816**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Barium | 200 | 200 | | mg/Kg | | 100 | 80 - 120 |
| Cadmium | 5.00 | 5.07 | | mg/Kg | | 101 | 80 - 120 |
| Chromium | 20.0 | 19.9 | | mg/Kg | | 99 | 80 - 120 |
| Lead | 50.0 | 50.7 | | mg/Kg | | 101 | 80 - 120 |
| Silver | 5.00 | 5.01 | | mg/Kg | | 100 | 80 - 120 |

**Lab Sample ID: LCS 180-47816/2-A**
**Matrix: Solid**
**Analysis Batch: 48241**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47816**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 50.0 | 48.9 | | mg/Kg | | 98 | 80 - 120 |
| Selenium | 50.0 | 48.3 | | mg/Kg | | 97 | 80 - 120 |

**Lab Sample ID: LB 180-47416/18-C LB**
**Matrix: Solid**
**Analysis Batch: 47826**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 47635**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 09/07/12 11:55 | 09/09/12 21:11 | 1 |
| Barium | 0.000620 | J | 0.20 | 0.00062 | mg/L | | 09/07/12 11:55 | 09/09/12 21:11 | 1 |
| Cadmium | 0.000160 | J | 0.050 | 0.00013 | mg/L | | 09/07/12 11:55 | 09/09/12 21:11 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 09/07/12 11:55 | 09/09/12 21:11 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 09/07/12 11:55 | 09/09/12 21:11 | 1 |
| Selenium | 0.0119 | J | 0.050 | 0.0030 | mg/L | | 09/07/12 11:55 | 09/09/12 21:11 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 09/07/12 11:55 | 09/09/12 21:11 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-47657/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 47704** — **Prep Batch: 47657**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 09/07/12 14:22 | 09/07/12 18:37 | 1 |

**Lab Sample ID: LCS 180-47657/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 47704** — **Prep Batch: 47657**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00275 | | mg/L | | 110 | 80 - 120 |

**Lab Sample ID: MB 180-48772/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 48851** — **Prep Batch: 48772**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.20 | 0.038 | ug/L | | 09/18/12 12:18 | 09/18/12 17:18 | 1 |

**Lab Sample ID: LCS 180-48772/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 48851** — **Prep Batch: 48772**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 2.50 | 2.45 | | ug/L | | 98 | 80 - 120 |

**Lab Sample ID: LB 180-47416/18-D LB** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: TCLP**
**Analysis Batch: 47704** — **Prep Batch: 47657**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.000216 | | 0.00020 | 0.000038 | mg/L | | 09/07/12 14:22 | 09/07/12 18:44 | 1 |

## Method: 7471A - Mercury (CVAA)

**Lab Sample ID: MB 180-48541/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 48603** — **Prep Batch: 48541**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.033 | 0.011 | mg/Kg | | 09/17/12 04:04 | 09/17/12 10:03 | 1 |

**Lab Sample ID: LCS 180-48541/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 48603** — **Prep Batch: 48541**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.417 | 0.415 | | mg/Kg | | 100 | 80 - 120 |

## Method: 7471A - Mercury (CVAA) (Continued)

**Lab Sample ID: 180-13966-15 MS**
**Matrix: Solid**
**Analysis Batch: 48603**

**Client Sample ID: 17W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 48541**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.026 | J | 0.186 | 0.205 | | mg/Kg | ☼ | 97 | 75 - 125 |

**Lab Sample ID: 180-13966-15 MSD**
**Matrix: Solid**
**Analysis Batch: 48603**

**Client Sample ID: 17W@2-4'**
**Prep Type: Total/NA**
**Prep Batch: 48541**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.026 | J | 0.180 | 0.198 | | mg/Kg | ☼ | 96 | 75 - 125 | 3 | 20 |

## Method: 1664A - HEM and SGT-HEM

**Lab Sample ID: MB 180-49110/1-A**
**Matrix: Water**
**Analysis Batch: 49228**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 49110**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.0 | 1.5 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |

**Lab Sample ID: LCS 180-49110/2-A**
**Matrix: Water**
**Analysis Batch: 49228**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 49110**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.7 | | mg/L | | 89 | 78 - 114 |

**Lab Sample ID: LCSD 180-49110/3-A**
**Matrix: Water**
**Analysis Batch: 49228**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 49110**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 34.7 | | mg/L | | 87 | 78 - 114 | 3 | 18 |

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 680-249801/1-A**
**Matrix: Water**
**Analysis Batch: 249805**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 249801**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 09/14/12 08:25 | 09/14/12 08:25 | 1 |

**Lab Sample ID: LCS 680-249801/2-A**
**Matrix: Water**
**Analysis Batch: 249805**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 249801**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.101 | | mg/L | | 103 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.101 | | mg/L | | 103 | 60 - 140 |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-19715/3-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 19716** — **Prep Batch: 19715**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.0 | mg/Kg | | 09/13/12 06:30 | 09/13/12 06:46 | 1 |

**Lab Sample ID: LCS 490-19715/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 19716** — **Prep Batch: 19715**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 998 | | mg/Kg | | 96 | 90 - 110 |

**Lab Sample ID: LCSD 490-19715/2-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 19716** — **Prep Batch: 19715**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 952 | | mg/Kg | | 92 | 90 - 110 | 5 | 20 |

**Lab Sample ID: MB 490-20762/2-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 20769** — **Prep Batch: 20762**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.0 | mg/Kg | | 09/17/12 02:00 | 09/17/12 14:30 | 1 |

**Lab Sample ID: LCS 490-20762/1-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 20769** — **Prep Batch: 20762**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 976 | | mg/Kg | | 94 | 90 - 110 |

**Lab Sample ID: 180-13966-8 MS** — **Client Sample ID: 31W@2-4'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 20769** — **Prep Batch: 20762**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 1420 | 1170 | | mg/Kg | ☼ | 82 | 70 - 130 |

**Lab Sample ID: 180-13966-8 MSD** — **Client Sample ID: 31W@2-4'**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 20769** — **Prep Batch: 20762**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 1420 | 1150 | | mg/Kg | ☼ | 81 | 70 - 130 | 1 | 20 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-1

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-47583/1-A**
**Matrix: Solid**
**Analysis Batch: 47690**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 47583**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 26.7 | J | 170 | 23 | mg/Kg | | 09/06/12 05:05 | 09/06/12 05:05 | 1 |

**Lab Sample ID: LCS 180-47583/2-A**
**Matrix: Solid**
**Analysis Batch: 47690**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 47583**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1160 | | mg/Kg | | 87 | 78 - 114 |

**Lab Sample ID: LCSD 180-47583/3-A**
**Matrix: Solid**
**Analysis Batch: 47690**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 47583**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1150 | | mg/Kg | | 87 | 78 - 114 | 1 | 18 |

## GC/MS VOA

### Analysis Batch: 47095

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-5 | 28W | Total/NA | Water | 8260B | |
| 180-13966-9 | 31W | Total/NA | Water | 8260B | |
| 180-13966-12 | 31WD | Total/NA | Water | 8260B | |
| LCS 180-47095/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-47095/5 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-47095/3 | Method Blank | Total/NA | Water | 8260B | |

### Prep Batch: 47265

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 5030B | |
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 5030B | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 5030B | |
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 5030B | |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 5030B | |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 5030B | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 5030B | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 5030B | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 5030B | |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 5030B | |
| LCS 180-47265/2-A | Lab Control Sample | Total/NA | Solid | 5030B | |
| LCSD 180-47265/3-A | Lab Control Sample Dup | Total/NA | Solid | 5030B | |
| MB 180-47265/1-A | Method Blank | Total/NA | Solid | 5030B | |

### Analysis Batch: 47275

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 8260B | 47265 |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 8260B | 47265 |
| LCS 180-47265/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 47265 |
| LCSD 180-47265/3-A | Lab Control Sample Dup | Total/NA | Solid | 8260B | 47265 |
| MB 180-47265/1-A | Method Blank | Total/NA | Solid | 8260B | 47265 |

### Leach Batch: 47567

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 1311 | |
| 180-13966-17 | 19W@2-4' | TCLP | Solid | 1311 | |
| LB 180-47567/15-A LB | Method Blank | TCLP | Solid | 1311 | |

### Analysis Batch: 47650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 8260B | 47567 |
| 180-13966-17 | 19W@2-4' | TCLP | Solid | 8260B | 47567 |
| LB 180-47567/15-A LB | Method Blank | TCLP | Solid | 8260B | 47567 |
| LCS 180-47650/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 180-47650/6 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

## GC/MS VOA (Continued)

### Analysis Batch: 47684

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 8260B | |
| 180-13966-7 | 29W | Total/NA | Water | 8260B | |
| 180-13966-14 | 33W | Total/NA | Water | 8260B | |
| 180-13966-16 | 17W | Total/NA | Water | 8260B | |
| 180-13966-18 | 19W | Total/NA | Water | 8260B | |
| LCS 180-47684/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 180-47684/5 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| MB 180-47684/3 | Method Blank | Total/NA | Water | 8260B | |

## GC/MS Semi VOA

### Prep Batch: 47211

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 3520C | |
| 180-13966-7 | 29W | Total/NA | Water | 3520C | |
| 180-13966-14 | 33W | Total/NA | Water | 3520C | |
| LCS 180-47211/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 180-47211/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 180-47211/1-A | Method Blank | Total/NA | Water | 3520C | |

### Prep Batch: 47296

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-16 | 17W | Total/NA | Water | 3520C | |
| 180-13966-18 | 19W | Total/NA | Water | 3520C | |
| LCS 180-47296/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 180-47296/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 180-47296/1-A | Method Blank | Total/NA | Water | 3520C | |

### Leach Batch: 47416

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 1311 | |
| 180-13966-17 | 19W@2-4' | TCLP | Solid | 1311 | |
| LB 180-47416/18-F LB | Method Blank | TCLP | Solid | 1311 | |

### Analysis Batch: 47446

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 8270C | 47211 |
| 180-13966-7 | 29W | Total/NA | Water | 8270C | 47211 |
| 180-13966-14 | 33W | Total/NA | Water | 8270C | 47211 |
| LCS 180-47211/2-A | Lab Control Sample | Total/NA | Water | 8270C | 47211 |
| LCSD 180-47211/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C | 47211 |
| MB 180-47211/1-A | Method Blank | Total/NA | Water | 8270C | 47211 |

### Analysis Batch: 47584

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-16 | 17W | Total/NA | Water | 8270C | 47296 |
| 180-13966-18 | 19W | Total/NA | Water | 8270C | 47296 |
| LCS 180-47296/2-A | Lab Control Sample | Total/NA | Water | 8270C | 47296 |
| LCSD 180-47296/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C | 47296 |
| MB 180-47296/1-A | Method Blank | Total/NA | Water | 8270C | 47296 |

## GC/MS Semi VOA (Continued)

### Prep Batch: 47585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 3541 | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 3541 | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 3541 | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 3541 | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 3541 | |
| LCS 180-47585/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCSD 180-47585/3-A | Lab Control Sample Dup | Total/NA | Solid | 3541 | |
| MB 180-47585/1-A | Method Blank | Total/NA | Solid | 3541 | |

### Prep Batch: 47638

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 180-47638/2-A | Lab Control Sample | Total/NA | Solid | 3510C | |
| LCSD 180-47638/3-A | Lab Control Sample Dup | Total/NA | Solid | 3510C | |
| MB 180-47638/1-A | Method Blank | Total/NA | Solid | 3510C | |

### Prep Batch: 47683

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 3510C | 47416 |
| 180-13966-17 | 19W@2-4' | TCLP | Solid | 3510C | 47416 |
| LB 180-47416/18-F LB | Method Blank | TCLP | Solid | 3510C | 47416 |
| LCS 180-47683/2-A | Lab Control Sample | Total/NA | Solid | 3510C | |
| LCSD 180-47683/3-A | Lab Control Sample Dup | Total/NA | Solid | 3510C | |
| MB 180-47683/1-A | Method Blank | Total/NA | Solid | 3510C | |

### Analysis Batch: 47721

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 8270C | 47585 |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 8270C | 47585 |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 8270C | 47585 |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 8270C | 47585 |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 8270C | 47585 |
| LCS 180-47585/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 47585 |
| LCSD 180-47585/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 47585 |
| MB 180-47585/1-A | Method Blank | Total/NA | Solid | 8270C | 47585 |

### Analysis Batch: 47889

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-17 | 19W@2-4' | TCLP | Solid | 8270C | 47683 |
| LCS 180-47683/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 47683 |
| LCSD 180-47683/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 47683 |
| MB 180-47683/1-A | Method Blank | Total/NA | Solid | 8270C | 47683 |

### Analysis Batch: 48036

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 8270C | 47683 |
| LB 180-47416/18-F LB | Method Blank | TCLP | Solid | 8270C | 47683 |
| LCS 180-47638/2-A | Lab Control Sample | Total/NA | Solid | 8270C | 47638 |
| LCSD 180-47638/3-A | Lab Control Sample Dup | Total/NA | Solid | 8270C | 47638 |
| MB 180-47638/1-A | Method Blank | Total/NA | Solid | 8270C | 47638 |

## GC VOA

### Analysis Batch: 249220

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 8015B | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 8015B | |
| LCS 680-249220/11 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-249220/8 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-249220/5 | Method Blank | Total/NA | Solid | 8015B | |
| MB 680-249220/7 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 249355

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 8015B | |
| 180-13966-5 | 28W | Total/NA | Water | 8015B | |
| 180-13966-7 | 29W | Total/NA | Water | 8015B | |
| 180-13966-9 | 31W | Total/NA | Water | 8015B | |
| 180-13966-12 | 31WD | Total/NA | Water | 8015B | |
| 180-13966-14 | 33W | Total/NA | Water | 8015B | |
| LCS 680-249355/4 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-249355/5 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-249355/3 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 249451

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 8015B | |
| LCS 680-249451/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-249451/7 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-249451/3 | Method Blank | Total/NA | Solid | 8015B | |

### Analysis Batch: 249486

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-16 | 17W | Total/NA | Water | 8015B | |
| 180-13966-18 | 19W | Total/NA | Water | 8015B | |
| LCS 680-249486/4 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-249486/5 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-249486/3 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 249523

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-4 - DL | 28@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-6 - DL | 29W@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-8 - DL | 31W@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-11 - DL | 31WD@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-13 - DL | 33W@3-5' | Total/NA | Solid | 8015B | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 8015B | |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 8015B | |
| LCS 680-249523/4 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-249523/5 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-249523/3 | Method Blank | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 47087

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 3510C | |
| 180-13966-7 | 29W | Total/NA | Water | 3510C | |
| 180-13966-14 | 33W | Total/NA | Water | 3510C | |
| 180-13966-16 | 17W | Total/NA | Water | 3510C | |
| 180-13966-18 | 19W | Total/NA | Water | 3510C | |
| LCS 180-47087/2-A | Lab Control Sample | Total/NA | Water | 3510C | |
| LCSD 180-47087/3-A | Lab Control Sample Dup | Total/NA | Water | 3510C | |
| MB 180-47087/1-A | Method Blank | Total/NA | Water | 3510C | |

### Prep Batch: 47586

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 3541 | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 3541 | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 3541 | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 3541 | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 3541 | |
| LCS 180-47586/2-A | Lab Control Sample | Total/NA | Solid | 3541 | |
| LCS 180-47586/2-D | Lab Control Sample | Total/NA | Solid | 3541 | |
| MB 180-47586/1-A | Method Blank | Total/NA | Solid | 3541 | |
| MB 180-47586/1-D | Method Blank | Total/NA | Solid | 3541 | |

### Analysis Batch: 48147

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 180-47586/2-D | Lab Control Sample | Total/NA | Solid | 8082 | 47586 |
| MB 180-47586/1-D | Method Blank | Total/NA | Solid | 8082 | 47586 |

### Analysis Batch: 48224

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 8082 | 47586 |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 8082 | 47586 |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 8082 | 47586 |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 8082 | 47586 |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 8082 | 47586 |
| LCS 180-47586/2-A | Lab Control Sample | Total/NA | Solid | 8082 | 47586 |
| MB 180-47586/1-A | Method Blank | Total/NA | Solid | 8082 | 47586 |

### Analysis Batch: 48883

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 8082 | 47087 |
| 180-13966-7 | 29W | Total/NA | Water | 8082 | 47087 |
| 180-13966-14 | 33W | Total/NA | Water | 8082 | 47087 |
| 180-13966-16 | 17W | Total/NA | Water | 8082 | 47087 |
| 180-13966-18 | 19W | Total/NA | Water | 8082 | 47087 |
| LCS 180-47087/2-A | Lab Control Sample | Total/NA | Water | 8082 | 47087 |
| LCSD 180-47087/3-A | Lab Control Sample Dup | Total/NA | Water | 8082 | 47087 |
| MB 180-47087/1-A | Method Blank | Total/NA | Water | 8082 | 47087 |

### Prep Batch: 248581

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 3520C | |
| 180-13966-5 | 28W | Total/NA | Water | 3520C | |
| 180-13966-7 | 29W | Total/NA | Water | 3520C | |

## GC Semi VOA (Continued)

### Prep Batch: 248581 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-9 | 31W | Total/NA | Water | 3520C | |
| 180-13966-12 | 31WD | Total/NA | Water | 3520C | |
| 180-13966-14 | 33W | Total/NA | Water | 3520C | |
| 180-13966-16 | 17W | Total/NA | Water | 3520C | |
| 180-13966-18 | 19W | Total/NA | Water | 3520C | |
| LCS 680-248581/10-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 680-248581/11-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 680-248581/9-A | Method Blank | Total/NA | Water | 3520C | |

### Prep Batch: 248590

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 3546 | |
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 3546 | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 3546 | |
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 3546 | |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 3546 | |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 3546 | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 3546 | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 3546 | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 3546 | |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 3546 | |
| LCS 680-248590/16-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-248590/15-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 249442

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-248590/16-A | Lab Control Sample | Total/NA | Solid | 8015B | 248590 |
| MB 680-248590/15-A | Method Blank | Total/NA | Solid | 8015B | 248590 |

### Analysis Batch: 249452

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-3 | 02W | Total/NA | Water | 8015B | 248581 |
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-5 | 28W | Total/NA | Water | 8015B | 248581 |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-7 | 29W | Total/NA | Water | 8015B | 248581 |
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-9 | 31W | Total/NA | Water | 8015B | 248581 |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-12 | 31WD | Total/NA | Water | 8015B | 248581 |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-14 | 33W | Total/NA | Water | 8015B | 248581 |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-16 | 17W | Total/NA | Water | 8015B | 248581 |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 8015B | 248590 |
| 180-13966-18 | 19W | Total/NA | Water | 8015B | 248581 |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 8015B | 248590 |
| LCS 680-248581/10-A | Lab Control Sample | Total/NA | Water | 8015B | 248581 |
| LCSD 680-248581/11-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 248581 |
| MB 680-248581/9-A | Method Blank | Total/NA | Water | 8015B | 248581 |

## GC Semi VOA (Continued)

### Prep Batch: 249489

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-7 - RE | 29W | Total/NA | Water | 3520C | |
| LCS 680-249489/8-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 680-249489/9-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |
| MB 680-249489/7-A | Method Blank | Total/NA | Water | 3520C | |

### Prep Batch: 249547

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-4 - RE | 28@2-4' | Total/NA | Solid | 3546 | |
| 180-13966-11 - RE | 31WD@2-4' | Total/NA | Solid | 3546 | |
| LCS 680-249547/9-D | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-249547/8-D | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 249743

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-7 - RE | 29W | Total/NA | Water | 8015B | 249489 |
| LCS 680-249489/8-A | Lab Control Sample | Total/NA | Water | 8015B | 249489 |
| LCSD 680-249489/9-A | Lab Control Sample Dup | Total/NA | Water | 8015B | 249489 |
| MB 680-249489/7-A | Method Blank | Total/NA | Water | 8015B | 249489 |

### Analysis Batch: 249748

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-4 - RE | 28@2-4' | Total/NA | Solid | 8015B | 249547 |
| 180-13966-11 - RE | 31WD@2-4' | Total/NA | Solid | 8015B | 249547 |
| LCS 680-249547/9-D | Lab Control Sample | Total/NA | Solid | 8015B | 249547 |
| MB 680-249547/8-D | Method Blank | Total/NA | Solid | 8015B | 249547 |

## Metals

### Prep Batch: 47155

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 3010A | |
| 180-13966-7 | 29W | Total/NA | Water | 3010A | |
| 180-13966-14 | 33W | Total/NA | Water | 3010A | |
| 180-13966-16 | 17W | Total/NA | Water | 3010A | |
| 180-13966-18 | 19W | Total/NA | Water | 3010A | |
| LCS 180-47155/2-A | Lab Control Sample | Total/NA | Water | 3010A | |
| MB 180-47155/1-A | Method Blank | Total/NA | Water | 3010A | |

### Leach Batch: 47416

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-2 | 02W@1.5'-2.0' | TCLP | Solid | 1311 | |
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 1311 | |
| 180-13966-17 | 19W@2-4' | TCLP | Solid | 1311 | |
| LB 180-47416/18-C LB | Method Blank | TCLP | Solid | 1311 | |
| LB 180-47416/18-D LB | Method Blank | TCLP | Solid | 1311 | |

### Analysis Batch: 47448

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 6010B | 47155 |
| 180-13966-7 | 29W | Total/NA | Water | 6010B | 47155 |
| 180-13966-14 | 33W | Total/NA | Water | 6010B | 47155 |
| 180-13966-16 | 17W | Total/NA | Water | 6010B | 47155 |

## Metals (Continued)

### Analysis Batch: 47448 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-18 | 19W | Total/NA | Water | 6010B | 47155 |
| LCS 180-47155/2-A | Lab Control Sample | Total/NA | Water | 6010B | 47155 |
| MB 180-47155/1-A | Method Blank | Total/NA | Water | 6010B | 47155 |

### Prep Batch: 47635

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-2 | 02W@1.5'-2.0' | TCLP | Solid | 3010A | 47416 |
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 3010A | 47416 |
| 180-13966-17 | 19W@2-4' | TCLP | Solid | 3010A | 47416 |
| LB 180-47416/18-C LB | Method Blank | TCLP | Solid | 3010A | 47416 |
| LCS 180-47635/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |
| MB 180-47635/1-A | Method Blank | Total/NA | Solid | 3010A | |

### Prep Batch: 47657

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-2 | 02W@1.5'-2.0' | TCLP | Solid | 7470A | 47416 |
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 7470A | 47416 |
| LB 180-47416/18-D LB | Method Blank | TCLP | Solid | 7470A | 47416 |
| LCS 180-47657/2-A | Lab Control Sample | Total/NA | Solid | 7470A | |
| MB 180-47657/1-A | Method Blank | Total/NA | Solid | 7470A | |

### Analysis Batch: 47704

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-2 | 02W@1.5'-2.0' | TCLP | Solid | 7470A | 47657 |
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 7470A | 47657 |
| LB 180-47416/18-D LB | Method Blank | TCLP | Solid | 7470A | 47657 |
| LCS 180-47657/2-A | Lab Control Sample | Total/NA | Solid | 7470A | 47657 |
| MB 180-47657/1-A | Method Blank | Total/NA | Solid | 7470A | 47657 |

### Prep Batch: 47816

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 3050B | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 3050B | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 3050B | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 3050B | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 3050B | |
| LCS 180-47816/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 180-47816/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 47826

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-2 | 02W@1.5'-2.0' | TCLP | Solid | 6010B | 47635 |
| 180-13966-13 | 33W@3-5' | TCLP | Solid | 6010B | 47635 |
| 180-13966-17 | 19W@2-4' | TCLP | Solid | 6010B | 47635 |
| LB 180-47416/18-C LB | Method Blank | TCLP | Solid | 6010B | 47635 |
| LCS 180-47635/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 47635 |
| MB 180-47635/1-A | Method Blank | Total/NA | Solid | 6010B | 47635 |

### Analysis Batch: 48061

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 6010B | 47816 |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 6010B | 47816 |

## Metals (Continued)

### Analysis Batch: 48061 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 6010B | 47816 |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 6010B | 47816 |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 6010B | 47816 |
| LCS 180-47816/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 47816 |
| MB 180-47816/1-A | Method Blank | Total/NA | Solid | 6010B | 47816 |

### Analysis Batch: 48241

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 6010B | 47816 |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 6010B | 47816 |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 6010B | 47816 |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 6010B | 47816 |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 6010B | 47816 |
| LCS 180-47816/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 47816 |
| MB 180-47816/1-A | Method Blank | Total/NA | Solid | 6010B | 47816 |

### Prep Batch: 48541

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 7471A | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 7471A | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 7471A | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 7471A | |
| 180-13966-15 MS | 17W@2-4' | Total/NA | Solid | 7471A | |
| 180-13966-15 MSD | 17W@2-4' | Total/NA | Solid | 7471A | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 7471A | |
| LCS 180-48541/2-A | Lab Control Sample | Total/NA | Solid | 7471A | |
| MB 180-48541/1-A | Method Blank | Total/NA | Solid | 7471A | |

### Analysis Batch: 48603

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 7471A | 48541 |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 7471A | 48541 |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 7471A | 48541 |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 7471A | 48541 |
| 180-13966-15 MS | 17W@2-4' | Total/NA | Solid | 7471A | 48541 |
| 180-13966-15 MSD | 17W@2-4' | Total/NA | Solid | 7471A | 48541 |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 7471A | 48541 |
| LCS 180-48541/2-A | Lab Control Sample | Total/NA | Solid | 7471A | 48541 |
| MB 180-48541/1-A | Method Blank | Total/NA | Solid | 7471A | 48541 |

### Prep Batch: 48772

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 7470A | |
| 180-13966-7 | 29W | Total/NA | Water | 7470A | |
| 180-13966-14 | 33W | Total/NA | Water | 7470A | |
| 180-13966-16 | 17W | Total/NA | Water | 7470A | |
| 180-13966-18 | 19W | Total/NA | Water | 7470A | |
| LCS 180-48772/2-A | Lab Control Sample | Total/NA | Water | 7470A | |
| MB 180-48772/1-A | Method Blank | Total/NA | Water | 7470A | |

## Metals (Continued)

### Analysis Batch: 48851

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 7470A | 48772 |
| 180-13966-7 | 29W | Total/NA | Water | 7470A | 48772 |
| 180-13966-14 | 33W | Total/NA | Water | 7470A | 48772 |
| 180-13966-16 | 17W | Total/NA | Water | 7470A | 48772 |
| 180-13966-18 | 19W | Total/NA | Water | 7470A | 48772 |
| LCS 180-48772/2-A | Lab Control Sample | Total/NA | Water | 7470A | 48772 |
| MB 180-48772/1-A | Method Blank | Total/NA | Water | 7470A | 48772 |

## General Chemistry

### Prep Batch: 19715

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 9023 | |
| LCS 490-19715/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| LCSD 490-19715/2-A | Lab Control Sample Dup | Total/NA | Solid | 9023 | |
| MB 490-19715/3-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 19716

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 9023 | 19715 |
| LCS 490-19715/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 19715 |
| LCSD 490-19715/2-A | Lab Control Sample Dup | Total/NA | Solid | 9023 | 19715 |
| MB 490-19715/3-A | Method Blank | Total/NA | Solid | 9023 | 19715 |

### Prep Batch: 20762

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 9023 | |
| 180-13966-8 MS | 31W@2-4' | Total/NA | Solid | 9023 | |
| 180-13966-8 MSD | 31W@2-4' | Total/NA | Solid | 9023 | |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 9023 | |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 9023 | |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 9023 | |
| LCS 490-20762/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-20762/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 20769

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 9023 | 20762 |
| 180-13966-8 MS | 31W@2-4' | Total/NA | Solid | 9023 | 20762 |
| 180-13966-8 MSD | 31W@2-4' | Total/NA | Solid | 9023 | 20762 |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 9023 | 20762 |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 9023 | 20762 |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 9023 | 20762 |
| LCS 490-20762/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 20762 |
| MB 490-20762/2-A | Method Blank | Total/NA | Solid | 9023 | 20762 |

### Analysis Batch: 47161

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | Moisture | |
| 180-13966-4 | 28@2-4' | Total/NA | Solid | Moisture | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | Moisture | |
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | Moisture | |

## General Chemistry (Continued)

### Analysis Batch: 47161 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-10 | 16@2-4' | Total/NA | Solid | Moisture | |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | Moisture | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | Moisture | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | Moisture | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | Moisture | |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | Moisture | |

### Prep Batch: 47583

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 9071B | |
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 9071B | |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 9071B | |
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 9071B | |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 9071B | |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 9071B | |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 9071B | |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 9071B | |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 9071B | |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 9071B | |
| LCS 180-47583/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-47583/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-47583/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Analysis Batch: 47690

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-1 | 02W@1-3' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-4 | 28@2-4' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-6 | 29W@2-4' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-8 | 31W@2-4' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-10 | 16@2-4' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-11 | 31WD@2-4' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-13 | 33W@3-5' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-15 | 17W@2-4' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-17 | 19W@2-4' | Total/NA | Solid | 9071B | 47583 |
| 180-13966-19 | 20@2-4' | Total/NA | Solid | 9071B | 47583 |
| LCS 180-47583/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 47583 |
| LCSD 180-47583/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 47583 |
| MB 180-47583/1-A | Method Blank | Total/NA | Solid | 9071B | 47583 |

### Prep Batch: 49110

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 1664A | |
| 180-13966-5 | 28W | Total/NA | Water | 1664A | |
| 180-13966-7 | 29W | Total/NA | Water | 1664A | |
| 180-13966-9 | 31W | Total/NA | Water | 1664A | |
| 180-13966-12 | 31WD | Total/NA | Water | 1664A | |
| 180-13966-14 | 33W | Total/NA | Water | 1664A | |
| 180-13966-16 | 17W | Total/NA | Water | 1664A | |
| 180-13966-18 | 19W | Total/NA | Water | 1664A | |
| LCS 180-49110/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-49110/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-49110/1-A | Method Blank | Total/NA | Water | 1664A | |

## General Chemistry (Continued)

### Analysis Batch: 49228

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-3 | 02W | Total/NA | Water | 1664A | 49110 |
| 180-13966-5 | 28W | Total/NA | Water | 1664A | 49110 |
| 180-13966-7 | 29W | Total/NA | Water | 1664A | 49110 |
| 180-13966-9 | 31W | Total/NA | Water | 1664A | 49110 |
| 180-13966-12 | 31WD | Total/NA | Water | 1664A | 49110 |
| 180-13966-14 | 33W | Total/NA | Water | 1664A | 49110 |
| 180-13966-16 | 17W | Total/NA | Water | 1664A | 49110 |
| 180-13966-18 | 19W | Total/NA | Water | 1664A | 49110 |
| LCS 180-49110/2-A | Lab Control Sample | Total/NA | Water | 1664A | 49110 |
| LCSD 180-49110/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 49110 |
| MB 180-49110/1-A | Method Blank | Total/NA | Water | 1664A | 49110 |

### Prep Batch: 249801

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-5 | 28W | Total/NA | Water | Carbon Trap | |
| 180-13966-9 | 31W | Total/NA | Water | Carbon Trap | |
| 180-13966-12 | 31WD | Total/NA | Water | Carbon Trap | |
| LCS 680-249801/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-249801/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 249805

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-5 | 28W | Total/NA | Water | 9020B | 249801 |
| 180-13966-9 | 31W | Total/NA | Water | 9020B | 249801 |
| 180-13966-12 | 31WD | Total/NA | Water | 9020B | 249801 |
| LCS 680-249801/2-A | Lab Control Sample | Total/NA | Water | 9020B | 249801 |
| MB 680-249801/1-A | Method Blank | Total/NA | Water | 9020B | 249801 |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13966-1

**Login Number: 13966**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: Ras, Erin F**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | False | Containers recd broken. Sufficient sample in remaining containers for analysis. |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13966-1

**Login Number: 13966**
**List Number: 1**
**Creator: McBride, Mike**

**List Source: TestAmerica Nashville**
**List Creation: 09/11/12 01:21 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13966-1

**Login Number: 13966**
**List Number: 1**
**Creator: Conner, Keaton**

**List Source: TestAmerica Savannah**
**List Creation: 09/01/12 02:18 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | N/A | |
| Samples do not require splitting or compositing. | N/A | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13966-1

**Login Number: 13966**
**List Number: 2**
**Creator: Swafford, Frances**

**List Source: TestAmerica Savannah**
**List Creation: 09/10/12 05:33 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | True | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13966-1

**Login Number: 13966**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: Ras, Erin F**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | False | Containers recd broken. Sufficient sample in remaining containers for analysis. |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-13966-2
Client Project/Site: Midtown Tunnel (MTT-MLK)

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

Veronica Bortot

*Authorized for release by:*
*10/9/2012 3:09:13 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 4
Certification Summary . . . . . 5
Sample Summary . . . . . 6
Method Summary . . . . . 7
Client Sample Results . . . . . 8
QC Sample Results . . . . . 9
QC Association . . . . . 11
Chain of Custody . . . . . 12
Receipt Checklists . . . . . 13

# Case Narrative

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

## Job ID: 180-13966-2

**Laboratory: TestAmerica Pittsburgh**

**Narrative**

**Job Narrative**
**180-13966-2**

**Comments**
No additional comments.

**Receipt**
The samples were received on 8/30/2012 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 4.4º C, 4.4º C, 4.5º C, 4.5º C, 4.6º C, 4.6º C and 4.6º C.

**Metals**

Method(s) 1311: Sample was extracted for method 7470 outside of holding time. Analysis was not requested until after the holding time had expired; client was aware and instructed to proceed.

No other analytical or quality issues were noted.

# Definitions/Glossary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

## Qualifiers

### Metals

| Qualifier | Qualifier Description |
|---|---|
| H | Sample was prepped or analyzed beyond the specified holding time |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| B | Compound was found in the blank and sample. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-13966-6 | 29W@2-4' | Solid | 08/28/12 12:45 | 08/30/12 09:15 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 6010B | Metals (ICP) | SW846 | TAL PIT |
| 7470A | Mercury (CVAA) | SW846 | TAL PIT |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

# Client Sample Results

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

**Client Sample ID: 29W@2-4'**
**Date Collected: 08/28/12 12:45**
**Date Received: 08/30/12 09:15**

**Lab Sample ID: 180-13966-6**
**Matrix: Solid**

## Method: 6010B - Metals (ICP) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **0.0049** | **J** | 0.050 | 0.0027 | mg/L | | 10/05/12 10:15 | 10/07/12 21:15 | 1 |
| **Barium** | **0.61** | **B** | 0.20 | 0.00062 | mg/L | | 10/05/12 10:15 | 10/07/12 21:15 | 1 |
| **Cadmium** | **0.00042** | **J** | 0.050 | 0.00013 | mg/L | | 10/05/12 10:15 | 10/07/12 21:15 | 1 |
| **Chromium** | **0.0018** | **J** | 0.050 | 0.00057 | mg/L | | 10/05/12 10:15 | 10/07/12 21:15 | 1 |
| **Lead** | **0.15** | | 0.050 | 0.0013 | mg/L | | 10/05/12 10:15 | 10/07/12 21:15 | 1 |
| **Selenium** | **0.012** | **J B** | 0.050 | 0.0030 | mg/L | | 10/05/12 10:15 | 10/07/12 21:15 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 10/05/12 10:15 | 10/07/12 21:15 | 1 |

## Method: 7470A - Mercury (CVAA) - TCLP

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | H | 0.00020 | 0.000038 | mg/L | | 10/05/12 13:18 | 10/05/12 18:53 | 1 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

## Method: 6010B - Metals (ICP)

**Lab Sample ID: MB 180-50919/1-A**
**Matrix: Solid**
**Analysis Batch: 51240**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 50919**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 10/05/12 10:15 | 10/07/12 20:59 | 1 |
| Barium | 0.00333 | J | 0.20 | 0.00062 | mg/L | | 10/05/12 10:15 | 10/07/12 20:59 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 10/05/12 10:15 | 10/07/12 20:59 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 10/05/12 10:15 | 10/07/12 20:59 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 10/05/12 10:15 | 10/07/12 20:59 | 1 |
| Selenium | 0.00310 | J | 0.050 | 0.0030 | mg/L | | 10/05/12 10:15 | 10/07/12 20:59 | 1 |
| Silver | ND | | 0.050 | 0.00068 | mg/L | | 10/05/12 10:15 | 10/07/12 20:59 | 1 |

**Lab Sample ID: LCS 180-50919/2-A**
**Matrix: Solid**
**Analysis Batch: 51240**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 50919**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 0.500 | 0.544 | | mg/L | | 109 | 80 - 120 |
| Barium | 2.00 | 2.08 | | mg/L | | 104 | 80 - 120 |
| Cadmium | 0.0500 | 0.0497 | J | mg/L | | 99 | 80 - 120 |
| Chromium | 0.200 | 0.205 | | mg/L | | 103 | 80 - 120 |
| Lead | 0.500 | 0.506 | | mg/L | | 101 | 80 - 120 |
| Selenium | 0.500 | 0.570 | | mg/L | | 114 | 80 - 120 |
| Silver | 0.0500 | 0.0556 | | mg/L | | 111 | 80 - 120 |

**Lab Sample ID: LB 180-50665/22-C LB**
**Matrix: Solid**
**Analysis Batch: 51240**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 50919**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 0.050 | 0.0027 | mg/L | | 10/05/12 10:15 | 10/07/12 21:04 | 1 |
| Barium | ND | | 0.20 | 0.00062 | mg/L | | 10/05/12 10:15 | 10/07/12 21:04 | 1 |
| Cadmium | ND | | 0.050 | 0.00013 | mg/L | | 10/05/12 10:15 | 10/07/12 21:04 | 1 |
| Chromium | ND | | 0.050 | 0.00057 | mg/L | | 10/05/12 10:15 | 10/07/12 21:04 | 1 |
| Lead | ND | | 0.050 | 0.0013 | mg/L | | 10/05/12 10:15 | 10/07/12 21:04 | 1 |
| Selenium | 0.0125 | J | 0.050 | 0.0030 | mg/L | | 10/05/12 10:15 | 10/07/12 21:04 | 1 |
| Silver | 0.000760 | J | 0.050 | 0.00068 | mg/L | | 10/05/12 10:15 | 10/07/12 21:04 | 1 |

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 180-50963/1-A**
**Matrix: Solid**
**Analysis Batch: 51006**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 50963**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.000038 | mg/L | | 10/05/12 13:18 | 10/05/12 18:47 | 1 |

**Lab Sample ID: LCS 180-50963/2-A**
**Matrix: Solid**
**Analysis Batch: 51006**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 50963**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 0.00250 | 0.00255 | | mg/L | | 102 | 80 - 120 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: LB 180-50665/22-D LB**
**Matrix: Solid**
**Analysis Batch: 51006**

**Client Sample ID: Method Blank**
**Prep Type: TCLP**
**Prep Batch: 50963**

| Analyte | LB Result | LB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.0000440 | J | 0.00020 | 0.000038 | mg/L | | 10/05/12 13:18 | 10/05/12 18:51 | 1 |

# QC Association Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-13966-2

## Metals

### Leach Batch: 50665

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-6 | 29W@2-4' | TCLP | Solid | 1311 | |
| LB 180-50665/22-C LB | Method Blank | TCLP | Solid | 1311 | |
| LB 180-50665/22-D LB | Method Blank | TCLP | Solid | 1311 | |

### Prep Batch: 50919

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-6 | 29W@2-4' | TCLP | Solid | 3010A | 50665 |
| LB 180-50665/22-C LB | Method Blank | TCLP | Solid | 3010A | 50665 |
| LCS 180-50919/2-A | Lab Control Sample | Total/NA | Solid | 3010A | |
| MB 180-50919/1-A | Method Blank | Total/NA | Solid | 3010A | |

### Prep Batch: 50963

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-6 | 29W@2-4' | TCLP | Solid | 7470A | 50665 |
| LB 180-50665/22-D LB | Method Blank | TCLP | Solid | 7470A | 50665 |
| LCS 180-50963/2-A | Lab Control Sample | Total/NA | Solid | 7470A | |
| MB 180-50963/1-A | Method Blank | Total/NA | Solid | 7470A | |

### Analysis Batch: 51006

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-6 | 29W@2-4' | TCLP | Solid | 7470A | 50963 |
| LB 180-50665/22-D LB | Method Blank | TCLP | Solid | 7470A | 50963 |
| LCS 180-50963/2-A | Lab Control Sample | Total/NA | Solid | 7470A | 50963 |
| MB 180-50963/1-A | Method Blank | Total/NA | Solid | 7470A | 50963 |

### Analysis Batch: 51240

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-13966-6 | 29W@2-4' | TCLP | Solid | 6010B | 50919 |
| LB 180-50665/22-C LB | Method Blank | TCLP | Solid | 6010B | 50919 |
| LCS 180-50919/2-A | Lab Control Sample | Total/NA | Solid | 6010B | 50919 |
| MB 180-50919/1-A | Method Blank | Total/NA | Solid | 6010B | 50919 |

13990

# SAMPLE CHAIN-OF-CUSTODY RECORD

Profile # ~~[illegible]~~ 4056748

## COLLECTION INFORMATION

| SAMPLE ID # | GENERATOR NAME & SAMPLING LOCATION | DATE | TIME | DESCRIPTION OF SAMPLE | NO. OF CONTAINERS & SIZE | SIGNATURE OF COLLECTOR |
|---|---|---|---|---|---|---|
| 2016483 | Williams Form Eng | 8-30-12 | | Coolant | 1QT | |

Was sample kept chilled until relinquished for shipment to lab? (Circle One) YES NO

If No, Explain:

## ANALYSIS REQUEST (PLACE CHECKS BY TESTS REQUIRED)

- ____ TCLP Volatiles (SPN 870807)
- ____ TCLP Semivolatiles - Aq/solids (SPN 870808)
- ____ TCLP Semivolatiles - Organics (SPN 870809)
- X TCLP RCRA Metals (SPN 870805)
- ____ TCLP Pesticides (SPN 870810)
- ____ TCLP Herbicides (SPN 870811)
- ____ Biochemical Oxygen Demand (BOD) (SPN 870826)
- ____ Chemical Oxygen Demand (COD) (SPN 870827)

Flashpoint/Ignitability for D001 (SPN 870813)
- ____ Pensky Martins (Temp at Flash)
- ____ SetaFlash (Screen @ <or > 140°F)

- ____ Total Metals RCRA 8 (SPN 870806)
- ____ Total Cyanide for D003 (SPN 870814)
- ____ Total Sulfide for D003 (SPN 870815)
- ____ pH/Corrosivity for D002 (SPN 870812)
- ____ Paint Filter (SPN 870821)
- ____ Specific Gravity/Bulk Density (SPN 870818)
- ____ PCBs (including wipes) (SPN 870820)
- ____ BTEX (SPN 870819)
- ____ Heat of Combustion (BTU) (SPN 870822)
- ____ % Water by Karl Fischer (SPN 870823)
- ____ Total Organic Carbon (TOC) (SPN 870824)
- ____ Oil and Grease (HEM) (SPN 870816)

- ____ Total Petroleum Hydrocarbons (TPH) (SPN 870817)
- ____ Total Organic Halogens (TOX) (SPN 870825)
- ____ Gasoline Range Organics (GRO) (SPN 870828)
- ____ Diesel Range Organics (DRO) (SPN 870829)

| | |
|---|---|
| Branch # | 306501 |
| Branch Address | 2700 W 2nd Street |
| | Grand Island NE. 68803 |
| Branch Fax # | 308-384-9089 |
| Sales Specialist Name | Jefferson |
| Sales Specialist Phone # | 308-383-5354 |
| Email Address | |

ADDITIONAL TESTING REQUIREMENTS:

## SAMPLE TRANSFER RECORD

| RELINQUISHED BY | DATE | TIME | RECEIVED BY | DATE | TIME |
|---|---|---|---|---|---|
| | | | C-Rae | 8-31-12 | 1015 |
| | | | | | |

## LAB USE ONLY

TEMPERATURE WHEN RECEIVED Amb. #3

SAMPLE KIT OPENED AND CHECKED IN BY ER AT 10:15 ON 8.31.12

C.O.C. SEALS SIGNED, DATED, AND INTACT ON ALL SAMPLES JARS? YES / NO IF NO, EXPLAIN:

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-13966-2

**Login Number: 13966**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: Ras, Erin F**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | False | Containers recd broken. Sufficient sample in remaining containers for analysis. |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-14425-1
Client Project/Site: Midtown Tunnel (MTT-MLK)

For:
EEE Consulting, Inc.
8525 Bell Creek Road
Mechanicsville, Virginia 23116

Attn: Mr. Doug Fraser

Veronica Bortot

*Authorized for release by:*
*9/25/2012 12:17:34 PM*

Veronica Bortot
Project Manager II
veronica.bortot@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Table of Contents

Cover Page . . . . . 1
Table of Contents . . . . . 2
Case Narrative . . . . . 3
Definitions . . . . . 4
Certification Summary . . . . . 5
Sample Summary . . . . . 8
Method Summary . . . . . 9
Client Sample Results . . . . . 10
QC Sample Results . . . . . 12
QC Association . . . . . 18
Chain of Custody . . . . . 21
Receipt Checklists . . . . . 22

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-14425-1

## Job ID: 180-14425-1

### Laboratory: TestAmerica Pittsburgh

**Narrative**

**Job Narrative**
**180-14425-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 9/14/2012 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

**GC/MS VOA**
Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: 180-14425-2. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

**GC VOA**
Method(s) 8015B: Manual integration was performed on the following sample(s): 180-14425-1.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-14425-1. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

No other analytical or quality issues were noted.

**GC Semi VOA**
Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: 180-14425-3. 3520C 8015DRO

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 250029 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: 180-14425-3. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

No other analytical or quality issues were noted.

**General Chemistry**
Method(s) 1664A: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: 180-14425-3. The reporting limits (RLs) have been adjusted proportionately.

Method(s) 9020B: Breakthrough exceeded 10% for the following sample(s):180-14425-3, 180-14425-3 MS, 180-14425-3 MSD. Re-analysis was performed with concurring results. The data have been reported.

No other analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

**VOA Prep**
No analytical or quality issues were noted.

# Definitions/Glossary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-14425-1

## Qualifiers

### GC VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside 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 Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| B | Compound was found in the blank and sample. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-14425-1

## Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Arkansas DEQ | State Program | 6 | 88-0690 | 06-27-13 |
| California | NELAC | 9 | 4224CA | 03-31-13 |
| Connecticut | State Program | 1 | PH-0688 | 09-30-12 |
| Florida | NELAC | 4 | E871008 | 06-30-13 |
| Illinois | NELAC | 5 | 002602 | 06-30-13 |
| Kansas | NELAC | 7 | E-10350 | 01-31-13 |
| L-A-B | DoD ELAP | | L2314 | 02-24-13 |
| Louisiana | NELAC | 6 | 04041 | 06-30-13 |
| New Hampshire | NELAC | 1 | 203011 | 04-04-13 |
| New Jersey | NELAC | 2 | PA005 | 06-30-13 |
| New York | NELAC | 2 | 11182 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 434 | 12-31-12 |
| Pennsylvania | NELAC | 3 | 02-00416 | 04-30-13 |
| South Carolina | State Program | 4 | 89014 | 04-30-13 |
| USDA | Federal | | P-Soil-01 | 04-16-15 |
| USDA | Federal | | P330-10-00139 | 04-28-13 |
| Utah | NELAC | 8 | STLP | 04-30-13 |
| Virginia | NELAC | 3 | 460189 | 09-14-13 |
| West Virginia DEP | State Program | 3 | 142 | 01-31-13 |
| Wisconsin | State Program | 5 | 998027800 | 08-31-13 |

## Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| | ACIL | | 393 | 10-30-12 |
| A2LA | ISO/IEC 17025 | | 0453.07 | 12-31-13 |
| Alabama | State Program | 4 | 41150 | 05-31-13 |
| Alaska (UST) | State Program | 10 | UST-087 | 07-24-13 |
| Arizona | State Program | 9 | AZ0473 | 05-05-13 |
| Arkansas DEQ | State Program | 6 | 88-0737 | 04-25-13 |
| California | NELAC | 9 | 1168CA | 10-31-12 |
| Canadian Assoc Lab Accred (CALA) | Canada | | 3744 | 03-08-14 |
| Colorado | State Program | 8 | N/A | 02-28-13 |
| Connecticut | State Program | 1 | PH-0220 | 12-31-13 |
| Florida | NELAC | 4 | E87358 | 06-30-13 |
| Illinois | NELAC | 5 | 200010 | 12-09-12 |
| Iowa | State Program | 7 | 131 | 05-01-14 |
| Kansas | NELAC | 7 | E-10229 | 10-31-12 |
| Kentucky | State Program | 4 | 90038 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 19 | 09-15-13 |
| Louisiana | NELAC | 6 | LA110014 | 12-31-12 |
| Louisiana | NELAC | 6 | 30613 | 06-30-13 |
| Maryland | State Program | 3 | 316 | 03-31-13 |
| Massachusetts | State Program | 1 | M-TN032 | 06-30-13 |
| Minnesota | NELAC | 5 | 047-999-345 | 12-31-12 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana (UST) | State Program | 8 | NA | 01-01-15 |
| Nevada | State Program | 9 | TN00032 | 09-30-13 |
| New Hampshire | NELAC | 1 | 2963 | 10-09-12 |
| New Jersey | NELAC | 2 | TN965 | 06-30-13 |
| New York | NELAC | 2 | 11342 | 04-01-13 |
| North Carolina DENR | State Program | 4 | 387 | 12-31-12 |

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-14425-1

## Laboratory: TestAmerica Nashville (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Dakota | State Program | 8 | R-146 | 06-30-13 |
| Ohio VAP | State Program | 5 | CL0033 | 01-19-14 |
| Oklahoma | State Program | 6 | 9412 | 08-31-13 |
| Oregon | NELAC | 10 | TN200001 | 04-30-13 |
| Pennsylvania | NELAC | 3 | 68-00585 | 06-30-13 |
| Rhode Island | State Program | 1 | LAO00268 | 12-30-12 |
| South Carolina | State Program | 4 | 84009 (001) | 02-28-13 |
| South Carolina | State Program | 4 | 84009 (002) | 02-23-14 |
| Tennessee | State Program | 4 | 2008 | 02-23-14 |
| Texas | NELAC | 6 | T104704077-09-TX | 08-31-13 |
| USDA | Federal | | S-48469 | 11-02-13 |
| Utah | NELAC | 8 | TAN | 06-30-13 |
| Virginia | NELAC | 3 | 460152 | 06-14-13 |
| Washington | State Program | 10 | C789 | 07-19-13 |
| West Virginia DEP | State Program | 3 | 219 | 02-28-13 |
| Wisconsin | State Program | 5 | 998020430 | 08-31-13 |
| Wyoming (UST) | A2LA | 8 | 453.07 | 12-31-13 |

## Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| A2LA | DoD ELAP | | 0399-01 | 02-28-13 |
| A2LA | ISO/IEC 17025 | | 399.01 | 02-28-13 |
| Alabama | State Program | 4 | 41450 | 06-30-13 |
| Alaska (UST) | State Program | 10 | UST-104 | 06-19-13 |
| Arkansas DEQ | State Program | 6 | 88-0692 | 02-01-13 |
| California | NELAC | 9 | 3217CA | 07-31-13 |
| Colorado | State Program | 8 | N/A | 12-31-12 |
| Connecticut | State Program | 1 | PH-0161 | 03-31-13 |
| Florida | NELAC | 4 | E87052 | 06-30-13 |
| GA Dept. of Agriculture | State Program | 4 | N/A | 12-31-12 |
| Georgia | State Program | 4 | N/A | 06-30-13 |
| Georgia | State Program | 4 | 803 | 06-30-13 |
| Guam | State Program | 9 | 09-005r | 04-17-13 |
| Hawaii | State Program | 9 | N/A | 06-30-13 |
| Illinois | NELAC | 5 | 200022 | 11-30-12 |
| Indiana | State Program | 5 | N/A | 06-30-13 |
| Iowa | State Program | 7 | 353 | 07-01-13 |
| Kentucky | State Program | 4 | 90084 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 18 | 02-28-13 |
| Louisiana | NELAC | 6 | 30690 | 06-30-13 |
| Louisiana | NELAC | 6 | LA100015 | 12-31-12 |
| Maine | State Program | 1 | GA00006 | 08-16-14 |
| Maryland | State Program | 3 | 250 | 12-31-12 |
| Massachusetts | State Program | 1 | M-GA006 | 06-30-13 |
| Michigan | State Program | 5 | 9925 | 06-30-13 |
| Mississippi | State Program | 4 | N/A | 06-30-13 |
| Montana | State Program | 8 | CERT0081 | 12-31-12 |
| Nebraska | State Program | 7 | TestAmerica-Savannah | 06-30-13 |
| New Jersey | NELAC | 2 | GA769 | 06-30-13 |
| New Mexico | State Program | 6 | N/A | 06-30-13 |
| New York | NELAC | 2 | 10842 | 04-01-13 |

# Certification Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-14425-1

## Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| North Carolina DENR | State Program | 4 | 269 | 12-31-13 |
| North Carolina DHHS | State Program | 4 | 13701 | 07-31-13 |
| Oklahoma | State Program | 6 | 9984 | 08-31-13 |
| Pennsylvania | NELAC | 3 | 68-00474 | 06-30-13 |
| Puerto Rico | State Program | 2 | GA00006 | 01-01-13 |
| Rhode Island | State Program | 1 | LAO00244 | 12-30-12 |
| South Carolina | State Program | 4 | 98001 | 06-30-13 |
| Tennessee | State Program | 4 | TN02961 | 06-30-13 |
| Texas | NELAC | 6 | T104704185-08-TX | 11-30-12 |
| USDA | Federal | | SAV 3-04 | 04-07-14 |
| Vermont | State Program | 1 | 87052 | 11-16-12 |
| Virginia | NELAC | 3 | 460161 | 06-14-13 |
| Washington | State Program | 10 | C1794 | 06-10-13 |
| West Virginia | State Program | 3 | 9950C | 12-31-12 |
| West Virginia DEP | State Program | 3 | 94 | 06-30-13 |
| Wisconsin | State Program | 5 | 999819810 | 08-31-13 |
| Wyoming | State Program | 8 | 8TMS-Q | 06-30-13 |

# Sample Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-14425-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Solid | 09/13/12 12:30 | 09/14/12 09:15 |
| 180-14425-2 | 35W@ 7'-9' | Solid | 09/13/12 11:00 | 09/14/12 09:15 |
| 180-14425-3 | 35W | Water | 09/13/12 11:30 | 09/14/12 09:15 |

# Method Summary

Client: EEE Consulting, Inc.
Project/Site: Midtown Tunnel (MTT-MLK)

TestAmerica Job ID: 180-14425-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL SAV |
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PIT |
| 8015B | Gasoline Range Organics - (GC) | SW846 | TAL SAV |
| 8015B | Diesel Range Organics (DRO) (GC) | SW846 | TAL SAV |
| 1664A | HEM and SGT-HEM | 1664A | TAL PIT |
| 9020B | Organic Halides, Total (TOX) | SW846 | TAL SAV |
| 9023 | Organic Halides, Extractable (EOX) | SW846 | TAL NSH |
| 9071B | HEM and SGT-HEM | SW846 | TAL PIT |
| Moisture | Percent Moisture | EPA | TAL PIT |

**Protocol References:**

1664A = EPA-821-98-002

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Client Sample ID: 32@ 4'-6'

**Lab Sample ID: 180-14425-1**

**Date Collected: 09/13/12 12:30**
**Matrix: Solid**
**Date Received: 09/14/12 09:15**
**Percent Solids: 78.7**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 250 | 37 | ug/Kg | ☼ | | 09/21/12 15:09 | 40 |
| Ethylbenzene | ND | | 250 | 66 | ug/Kg | ☼ | | 09/21/12 15:09 | 40 |
| **Toluene** | **290** | | 250 | 43 | ug/Kg | ☼ | | 09/21/12 15:09 | 40 |
| **Xylenes, Total** | **520** | | 510 | 56 | ug/Kg | ☼ | | 09/21/12 15:09 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *81* | | *65 - 130* | | *09/21/12 15:09* | *40* |
| *Dibromofluoromethane* | *73* | | *65 - 130* | | *09/21/12 15:09* | *40* |
| *Toluene-d8 (Surr)* | *75* | | *65 - 130* | | *09/21/12 15:09* | *40* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **15** | | 6.4 | 0.48 | mg/Kg | ☼ | | 09/20/12 16:24 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *60* | *X* | *70 - 131* | | *09/20/12 16:24* | *20* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Diesel Range Organics [C10-C28]** | **6300** | | 210 | 130 | mg/Kg | ☼ | 09/17/12 13:50 | 09/19/12 13:24 | 50 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 13 | 8.9 | mg/Kg | ☼ | 09/17/12 02:00 | 09/17/12 14:30 | 1 |
| **HEM** | **940** | **B** | 210 | 29 | mg/Kg | ☼ | 09/20/12 08:39 | 09/20/12 08:39 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Percent Moisture** | **21** | | 0.10 | 0.10 | % | | | 09/17/12 10:58 | 1 |
| **Percent Solids** | **79** | | 0.10 | 0.10 | % | | | 09/17/12 10:58 | 1 |

## Client Sample ID: 35W@ 7'-9'

**Lab Sample ID: 180-14425-2**

**Date Collected: 09/13/12 11:00**
**Matrix: Solid**
**Date Received: 09/14/12 09:15**
**Percent Solids: 83.6**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 240 | 35 | ug/Kg | ☼ | | 09/21/12 15:32 | 40 |
| Ethylbenzene | ND | | 240 | 62 | ug/Kg | ☼ | | 09/21/12 15:32 | 40 |
| Toluene | ND | | 240 | 40 | ug/Kg | ☼ | | 09/21/12 15:32 | 40 |
| Xylenes, Total | ND | | 480 | 53 | ug/Kg | ☼ | | 09/21/12 15:32 | 40 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *94* | | *65 - 130* | | *09/21/12 15:32* | *40* |
| *Dibromofluoromethane* | *86* | | *65 - 130* | | *09/21/12 15:32* | *40* |
| *Toluene-d8 (Surr)* | *75* | | *65 - 130* | | *09/21/12 15:32* | *40* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Gasoline Range Organics (GRO) -C6-C10** | **12** | | 6.0 | 0.45 | mg/Kg | ☼ | | 09/20/12 16:04 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *70* | | *70 - 131* | | *09/20/12 16:04* | *20* |

## Client Sample ID: 35W@ 7'-9'

**Lab Sample ID: 180-14425-2**
**Date Collected: 09/13/12 11:00**
**Matrix: Solid**
**Date Received: 09/14/12 09:15**
**Percent Solids: 83.6**

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 710 | | 16 | 10 | mg/Kg | ☼ | 09/17/12 13:50 | 09/19/12 13:38 | 4 |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 12 | 8.4 | mg/Kg | ☼ | 09/17/12 02:00 | 09/17/12 14:30 | 1 |
| HEM | 480 | B | 200 | 28 | mg/Kg | ☼ | 09/20/12 08:39 | 09/20/12 08:39 | 1 |

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Percent Moisture | 16 | | 0.10 | 0.10 | % | | | 09/17/12 10:58 | 1 |
| Percent Solids | 84 | | 0.10 | 0.10 | % | | | 09/17/12 10:58 | 1 |

## Client Sample ID: 35W

**Lab Sample ID: 180-14425-3**
**Date Collected: 09/13/12 11:30**
**Matrix: Water**
**Date Received: 09/14/12 09:15**

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 09/14/12 19:27 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 09/14/12 19:27 | 1 |
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 09/14/12 19:27 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 09/14/12 19:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *64 - 135* | | *09/14/12 19:27* | *1* |
| *Toluene-d8 (Surr)* | *96* | | *71 - 118* | | *09/14/12 19:27* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 118* | | *09/14/12 19:27* | *1* |
| *Dibromofluoromethane (Surr)* | *92* | | *70 - 128* | | *09/14/12 19:27* | *1* |

### Method: 8015B - Gasoline Range Organics - (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.025 | J | 0.050 | 0.011 | mg/L | | | 09/19/12 13:01 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *85* | | *70 - 130* | | *09/19/12 13:01* | *1* |

### Method: 8015B - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.4 | | 0.098 | 0.049 | mg/L | | 09/18/12 14:58 | 09/19/12 17:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *31* | *X* | *62 - 130* | *09/18/12 14:58* | *09/19/12 17:03* | *1* |

### General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 23 | J | 50 | 15 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |
| Halogens, Total Organic | 0.13 | | 0.040 | 0.014 | mg/L | | 09/19/12 08:15 | 09/19/12 08:15 | 4 |
| TOX Result 1 | 0.12 | | 0.040 | 0.014 | mg/L | | 09/19/12 08:15 | 09/19/12 08:15 | 4 |
| TOX Result 2 | 0.13 | | 0.040 | 0.014 | mg/L | | 09/19/12 08:15 | 09/19/12 08:15 | 4 |

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 680-250643/7**
**Matrix: Solid**
**Analysis Batch: 250643**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 200 | 29 | ug/Kg | | | 09/21/12 14:46 | 40 |
| Ethylbenzene | ND | | 200 | 52 | ug/Kg | | | 09/21/12 14:46 | 40 |
| Toluene | ND | | 200 | 34 | ug/Kg | | | 09/21/12 14:46 | 40 |
| Xylenes, Total | ND | | 400 | 44 | ug/Kg | | | 09/21/12 14:46 | 40 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene* | *114* | | *65 - 130* | | *09/21/12 14:46* | *40* |
| *Dibromofluoromethane* | *102* | | *65 - 130* | | *09/21/12 14:46* | *40* |
| *Toluene-d8 (Surr)* | *100* | | *65 - 130* | | *09/21/12 14:46* | *40* |

**Lab Sample ID: LCS 680-250643/4**
**Matrix: Solid**
**Analysis Batch: 250643**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 2500 | 2340 | | ug/Kg | | 94 | 70 - 130 | | |
| Ethylbenzene | | | 2500 | 2370 | | ug/Kg | | 95 | 70 - 130 | | |
| Toluene | | | 2500 | 2250 | | ug/Kg | | 90 | 70 - 130 | | |
| o-Xylene | | | 2500 | 2390 | | ug/Kg | | 96 | 70 - 130 | | |
| m-Xylene & p-Xylene | | | 5000 | 4500 | | ug/Kg | | 90 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *99* | | *65 - 130* |
| *Dibromofluoromethane* | *85* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *92* | | *65 - 130* |

**Lab Sample ID: LCSD 680-250643/5**
**Matrix: Solid**
**Analysis Batch: 250643**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 2500 | 2410 | | ug/Kg | | 96 | 70 - 130 | 3 | 50 |
| Ethylbenzene | | | 2500 | 2360 | | ug/Kg | | 94 | 70 - 130 | 0 | 50 |
| Toluene | | | 2500 | 2300 | | ug/Kg | | 92 | 70 - 130 | 2 | 50 |
| o-Xylene | | | 2500 | 2360 | | ug/Kg | | 94 | 70 - 130 | 1 | 50 |
| m-Xylene & p-Xylene | | | 5000 | 4610 | | ug/Kg | | 92 | 70 - 130 | 2 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene* | *97* | | *65 - 130* |
| *Dibromofluoromethane* | *97* | | *65 - 130* |
| *Toluene-d8 (Surr)* | *95* | | *65 - 130* |

**Lab Sample ID: MB 180-48481/4**
**Matrix: Water**
**Analysis Batch: 48481**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | | 1.0 | 0.11 | ug/L | | | 09/14/12 09:41 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.23 | ug/L | | | 09/14/12 09:41 | 1 |

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 180-48481/4**
**Matrix: Water**
**Analysis Batch: 48481**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Toluene | ND | | 1.0 | 0.15 | ug/L | | | 09/14/12 09:41 | 1 |
| Xylenes, Total | ND | | 3.0 | 0.49 | ug/L | | | 09/14/12 09:41 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *98* | | *64 - 135* | | *09/14/12 09:41* | *1* |
| *Toluene-d8 (Surr)* | *89* | | *71 - 118* | | *09/14/12 09:41* | *1* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *70 - 118* | | *09/14/12 09:41* | *1* |
| *Dibromofluoromethane (Surr)* | *93* | | *70 - 128* | | *09/14/12 09:41* | *1* |

**Lab Sample ID: LCS 180-48481/5**
**Matrix: Water**
**Analysis Batch: 48481**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 10.0 | 10.5 | | ug/L | | 105 | 80 - 120 |
| Ethylbenzene | 10.0 | 10.8 | | ug/L | | 108 | 72 - 126 |
| Toluene | 10.0 | 11.0 | | ug/L | | 110 | 80 - 123 |
| Xylenes, Total | 30.0 | 31.5 | | ug/L | | 105 | 76 - 128 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *96* | | *64 - 135* |
| *Toluene-d8 (Surr)* | *103* | | *71 - 118* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *70 - 118* |
| *Dibromofluoromethane (Surr)* | *92* | | *70 - 128* |

## Method: 8015B - Gasoline Range Organics - (GC)

**Lab Sample ID: MB 680-250316/3**
**Matrix: Water**
**Analysis Batch: 250316**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 0.050 | 0.011 | mg/L | | | 09/19/12 11:37 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *94* | | *70 - 130* | | *09/19/12 11:37* | *1* |

**Lab Sample ID: LCS 680-250316/4**
**Matrix: Water**
**Analysis Batch: 250316**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | 0.200 | 0.179 | | mg/L | | 89 | 70 - 148 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 130* |

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

**Lab Sample ID: LCSD 680-250316/5**
**Matrix: Water**
**Analysis Batch: 250316**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 0.200 | 0.180 | | mg/L | | 90 | 70 - 148 | 0 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *99* | | *70 - 130* |

**Lab Sample ID: MB 680-250505/7**
**Matrix: Solid**
**Analysis Batch: 250505**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | ND | | 5.0 | 0.38 | mg/Kg | | | 09/20/12 13:12 | 20 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *110* | | *70 - 131* | | *09/20/12 13:12* | *20* |

**Lab Sample ID: LCS 680-250505/3**
**Matrix: Solid**
**Analysis Batch: 250505**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 32.2 | | mg/Kg | | 81 | 64 - 133 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *98* | | *70 - 131* |

**Lab Sample ID: LCSD 680-250505/4**
**Matrix: Solid**
**Analysis Batch: 250505**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) -C6-C10 | | | 40.0 | 31.5 | | mg/Kg | | 79 | 64 - 133 | 2 | 50 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *a,a,a-Trifluorotoluene* | *96* | | *70 - 131* |

## Method: 8015B - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 680-250029/6-A**
**Matrix: Water**
**Analysis Batch: 250353**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 250029**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | ND | | 0.10 | 0.050 | mg/L | | 09/18/12 14:58 | 09/19/12 14:43 | 1 |

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 680-250029/6-A**
**Matrix: Water**
**Analysis Batch: 250353**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 250029**

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *74* | | *62 - 130* | *09/18/12 14:58* | *09/19/12 14:43* | *1* |

**Lab Sample ID: LCS 680-250029/7-A**
**Matrix: Water**
**Analysis Batch: 250353**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 250029**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.00 | 0.628 | | mg/L | | 63 | 25 - 145 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| *o-Terphenyl* | *66* | | *62 - 130* |

## Method: 1664A - HEM and SGT-HEM

**Lab Sample ID: MB 180-49110/1-A**
**Matrix: Water**
**Analysis Batch: 49228**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 49110**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | ND | | 5.0 | 1.5 | mg/L | | 09/20/12 14:22 | 09/20/12 14:22 | 1 |

**Lab Sample ID: LCS 180-49110/2-A**
**Matrix: Water**
**Analysis Batch: 49228**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 49110**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 35.7 | | mg/L | | 89 | 78 - 114 |

**Lab Sample ID: LCSD 180-49110/3-A**
**Matrix: Water**
**Analysis Batch: 49228**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 49110**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 40.0 | 34.7 | | mg/L | | 87 | 78 - 114 | 3 | 18 |

## Method: 9020B - Organic Halides, Total (TOX)

**Lab Sample ID: MB 680-250424/1-A**
**Matrix: Water**
**Analysis Batch: 250432**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 250424**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Total Organic | ND | | 0.010 | 0.0035 | mg/L | | 09/19/12 08:15 | 09/19/12 08:15 | 1 |
| TOX Result 1 | ND | | 0.010 | 0.0035 | mg/L | | 09/19/12 08:15 | 09/19/12 08:15 | 1 |
| TOX Result 2 | ND | | 0.010 | 0.0035 | mg/L | | 09/19/12 08:15 | 09/19/12 08:15 | 1 |

## Method: 9020B - Organic Halides, Total (TOX) (Continued)

**Lab Sample ID: LCS 680-250424/2-A**
**Matrix: Water**
**Analysis Batch: 250432**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 250424**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.0984 | 0.0942 | | mg/L | | 96 | 60 - 140 |
| TOX Result 2 | 0.0984 | 0.0942 | | mg/L | | 96 | 60 - 140 |

**Lab Sample ID: 180-14425-3 MS**
**Matrix: Water**
**Analysis Batch: 250432**

**Client Sample ID: 35W**
**Prep Type: Total/NA**
**Prep Batch: 250424**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.12 | | 0.393 | 0.481 | | mg/L | | 91 | 60 - 140 |
| TOX Result 2 | 0.13 | | 0.393 | 0.481 | | mg/L | | 90 | 60 - 140 |

**Lab Sample ID: 180-14425-3 MSD**
**Matrix: Water**
**Analysis Batch: 250432**

**Client Sample ID: 35W**
**Prep Type: Total/NA**
**Prep Batch: 250424**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TOX Result 1 | 0.12 | | 0.393 | 0.533 | | mg/L | | 104 | 60 - 140 | 10 | 40 |
| TOX Result 2 | 0.13 | | 0.393 | 0.533 | | mg/L | | 103 | 60 - 140 | 10 | 40 |

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID: MB 490-20762/2-A**
**Matrix: Solid**
**Analysis Batch: 20769**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 20762**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | ND | | 10 | 7.0 | mg/Kg | | 09/17/12 02:00 | 09/17/12 14:30 | 1 |

**Lab Sample ID: LCS 490-20762/1-A**
**Matrix: Solid**
**Analysis Batch: 20769**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 20762**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Halogens, Extractable Organic | 1040 | 976 | | mg/Kg | | 94 | 90 - 110 |

## Method: 9071B - HEM and SGT-HEM

**Lab Sample ID: MB 180-49045/1-A**
**Matrix: Solid**
**Analysis Batch: 49238**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 49045**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| HEM | 33.3 | J | 170 | 23 | mg/Kg | | 09/20/12 08:39 | 09/20/12 08:39 | 1 |

**Lab Sample ID: LCS 180-49045/2-A**
**Matrix: Solid**
**Analysis Batch: 49238**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 49045**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| HEM | 1330 | 1260 | | mg/Kg | | 95 | 78 - 114 |

## Method: 9071B - HEM and SGT-HEM (Continued)

**Lab Sample ID: LCSD 180-49045/3-A**
**Matrix: Solid**
**Analysis Batch: 49238**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 49045**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HEM | | | 1330 | 1250 | | mg/Kg | | 94 | 78 - 114 | 1 | 18 |

## GC/MS VOA

### Analysis Batch: 48481

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-3 | 35W | Total/NA | Water | 8260B | |
| LCS 180-48481/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| MB 180-48481/4 | Method Blank | Total/NA | Water | 8260B | |

### Analysis Batch: 250643

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | 8260B | |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | 8260B | |
| LCS 680-250643/4 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 680-250643/5 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |
| MB 680-250643/7 | Method Blank | Total/NA | Solid | 8260B | |

## GC VOA

### Analysis Batch: 250316

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-3 | 35W | Total/NA | Water | 8015B | |
| LCS 680-250316/4 | Lab Control Sample | Total/NA | Water | 8015B | |
| LCSD 680-250316/5 | Lab Control Sample Dup | Total/NA | Water | 8015B | |
| MB 680-250316/3 | Method Blank | Total/NA | Water | 8015B | |

### Analysis Batch: 250505

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | 8015B | |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | 8015B | |
| LCS 680-250505/3 | Lab Control Sample | Total/NA | Solid | 8015B | |
| LCSD 680-250505/4 | Lab Control Sample Dup | Total/NA | Solid | 8015B | |
| MB 680-250505/7 | Method Blank | Total/NA | Solid | 8015B | |

## GC Semi VOA

### Prep Batch: 249956

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | 3546 | |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | 3546 | |

### Prep Batch: 250029

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-3 | 35W | Total/NA | Water | 3520C | |
| LCS 680-250029/7-A | Lab Control Sample | Total/NA | Water | 3520C | |
| MB 680-250029/6-A | Method Blank | Total/NA | Water | 3520C | |

### Analysis Batch: 250353

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | 8015B | 249956 |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | 8015B | 249956 |
| 180-14425-3 | 35W | Total/NA | Water | 8015B | 250029 |
| LCS 680-250029/7-A | Lab Control Sample | Total/NA | Water | 8015B | 250029 |
| MB 680-250029/6-A | Method Blank | Total/NA | Water | 8015B | 250029 |

## General Chemistry

### Prep Batch: 20762

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | 9023 | |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | 9023 | |
| LCS 490-20762/1-A | Lab Control Sample | Total/NA | Solid | 9023 | |
| MB 490-20762/2-A | Method Blank | Total/NA | Solid | 9023 | |

### Analysis Batch: 20769

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | 9023 | 20762 |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | 9023 | 20762 |
| LCS 490-20762/1-A | Lab Control Sample | Total/NA | Solid | 9023 | 20762 |
| MB 490-20762/2-A | Method Blank | Total/NA | Solid | 9023 | 20762 |

### Analysis Batch: 48599

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | Moisture | |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | Moisture | |

### Prep Batch: 49045

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | 9071B | |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | 9071B | |
| LCS 180-49045/2-A | Lab Control Sample | Total/NA | Solid | 9071B | |
| LCSD 180-49045/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | |
| MB 180-49045/1-A | Method Blank | Total/NA | Solid | 9071B | |

### Prep Batch: 49110

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-3 | 35W | Total/NA | Water | 1664A | |
| LCS 180-49110/2-A | Lab Control Sample | Total/NA | Water | 1664A | |
| LCSD 180-49110/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | |
| MB 180-49110/1-A | Method Blank | Total/NA | Water | 1664A | |

### Analysis Batch: 49228

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-3 | 35W | Total/NA | Water | 1664A | 49110 |
| LCS 180-49110/2-A | Lab Control Sample | Total/NA | Water | 1664A | 49110 |
| LCSD 180-49110/3-A | Lab Control Sample Dup | Total/NA | Water | 1664A | 49110 |
| MB 180-49110/1-A | Method Blank | Total/NA | Water | 1664A | 49110 |

### Analysis Batch: 49238

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-1 | 32@ 4'-6' | Total/NA | Solid | 9071B | 49045 |
| 180-14425-2 | 35W@ 7'-9' | Total/NA | Solid | 9071B | 49045 |
| LCS 180-49045/2-A | Lab Control Sample | Total/NA | Solid | 9071B | 49045 |
| LCSD 180-49045/3-A | Lab Control Sample Dup | Total/NA | Solid | 9071B | 49045 |
| MB 180-49045/1-A | Method Blank | Total/NA | Solid | 9071B | 49045 |

### Prep Batch: 250424

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-3 | 35W | Total/NA | Water | Carbon Trap | |
| 180-14425-3 MS | 35W | Total/NA | Water | Carbon Trap | |
| 180-14425-3 MSD | 35W | Total/NA | Water | Carbon Trap | |

## General Chemistry (Continued)

### Prep Batch: 250424 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCS 680-250424/2-A | Lab Control Sample | Total/NA | Water | Carbon Trap | |
| MB 680-250424/1-A | Method Blank | Total/NA | Water | Carbon Trap | |

### Analysis Batch: 250432

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 180-14425-3 | 35W | Total/NA | Water | 9020B | 250424 |
| 180-14425-3 MS | 35W | Total/NA | Water | 9020B | 250424 |
| 180-14425-3 MSD | 35W | Total/NA | Water | 9020B | 250424 |
| LCS 680-250424/2-A | Lab Control Sample | Total/NA | Water | 9020B | 250424 |
| MB 680-250424/1-A | Method Blank | Total/NA | Water | 9020B | 250424 |

14425

2 of 3

# Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

9/25/2012

| Client Contact | | | | |
|---|---|---|---|---|
| Company Name: EEE Consulting | Client Project Manager: Doug Fraser | Site Contact: Paul Leeger | Lab Contact: Emily Bauer | COC No: |
| Address: 8525 Bell Creek Rd. | Telephone: | Telephone: 804-513-8080 | Telephone: | 1 of 1 COCs |
| City/State/Zip: Mechanicsville VA | Email: | Analysis Turnaround Time (in BUS days) | Analyses | For lab use only |
| Phone: 804-442-3330 | | TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day | | Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐ Job/SDG No: |
| Project Name: MLK \| MTT \| DTT | Method of Shipment/Carrier: Courier | | | |
| Project Number: 12-074 | Shipping/Tracking No: | | | |
| PO # | | | | |

| Sample Identification | Sample Date | Sample Time | Matrix: Air | Aqueous | Sediment | Solid | Other: | Containers & Preservatives: H2SO4 | HNO3 | HCl | NaOH | ZnAc/ NaOH | Unpres | Other: | Filtered Sample (Y/N) | Composite C / Grab G | DRO & GRO | BTEX & EOX | Oil & Grease | Sample Specific Notes / Special Instructions: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32@4'-6' | 9/13 | 12:30 | | | | X | | | | | | | | | | | X | X | X | 5 day TAT |
| 35W@7'-9' | 9/13 | 11:00 | | | | X | | | | | | | | | | | X | X | X | " |
| 35W | 9/13 | 11:30 | | X | | | | X | | X | | | | | | | X | X | X | " |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

| Relinquished by: | Company: | Date/Time: | Received by: | Company: | Date/Time: |
|---|---|---|---|---|---|
| Ralph W. Jeager | EEE | 9/13/12 12:50 | Emily A Bauer | TA | 9/13/12 1250 |
| Emily A Bauer | TA | 9/13/12 1600 | [illegible] | TA PITT | 9-14-12 0915 |
| Relinquished by: | Company: | Date/Time: | Received in Laboratory by: | Company: | Date/Time: |

©2008, TestAmerica Laboratories, Inc. All rights reserved.
TestAmerica & Design ™ are trademarks of TestAmerica Laboratories, Inc.

TAL-0018 (1008)

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-14425-1

**Login Number: 14425**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: Ras, Erin F**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-14425-1

**Login Number: 14425**
**List Number: 1**
**Creator: Ford, Easton**

**List Source: TestAmerica Nashville**
**List Creation: 09/15/12 04:35 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | N/A | |
| 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-14425-1

**Login Number: 14425**
**List Number: 1**
**Creator: Barnett, Eddie T**

**List Source: TestAmerica Savannah**
**List Creation: 09/15/12 01:24 PM**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | 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. | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Login Sample Receipt Checklist

Client: EEE Consulting, Inc.

Job Number: 180-14425-1

**Login Number: 14425**

**List Source: TestAmerica Pittsburgh**

**List Number: 1**

**Creator: Ras, Erin F**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received 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 | |
| Sample Preservation Verified. | 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 | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |