Supplemental Site Assessment Report

Cheat River Rail-Trail Corridor
VRP#20018

May 25, 2021

Prepared for:

Friends of the Cheat
343 North Preston Highway
Kingwood, WV 26537

Prepared by:

AECOM
12420 Milestone Center Drive
Germantown, MD 20876
aecom.com

Copyright © 2020 by AECOM

All rights reserved. No part of this copyrighted work may be reproduced, distributed, or transmitted in any form or by any means without the prior written permission of AECOM.

Table of Contents

1. Introduction 1-1
1.1 Purpose and Scope 1-1
1.2 Report Organization 1-1
2. Site Background 2-1
2.1 Site Location and Surrounding Uses 2-1
2.2 Site History 2-1
2.3 Previous Investigations 2-1
2.4 Regulatory Framework 2-2
2.5 Project Personnel and Roles 2-3
2.6 Summary of October 2020 Site Visit 2-3
3. Preliminary Conceptual Site Model 3-1
3.1 Physical Setting 3-1
3.1.1 Site Geology 3-1
3.1.2 Site Hydrology and Hydrogeology 3-1
3.1.3 Surface Water 3-1
3.2 Preliminary Human Health Conceptual Site Exposure Model 3-2
3.2.1 Potential Transport Mechanisms 3-2
3.2.2 Potential Receptors 3-2
3.2.3 Potential Exposure Pathways 3-3
3.2.4 Potentially Complete and Incomplete Pathways 3-3
3.3 Preliminary Ecological Conceptual Site Model 3-4
3.3.1 Potential Ecological Receptors and Relevant Exposure Routes 3-5
3.3.2 Management Goals with Assessment and Measurement Endpoints 3-6
4. Supplemental Site Assessment 4-1
4.1 Objectives of the Assessment 4-1
4.1.1 Human Health Assessment Data Gaps 4-1
4.1.2 Ecological Screening Evaluation Data Gaps 4-1
4.2 Sampling and Analysis Plan 4-2
4.2.1 Soil Sampling 4-2
4.2.1.1 Surface Soil Sampling 4-2
4.2.1.2 Subsurface Soil Sampling 4-2
4.2.2 Sediment Sampling 4-3
4.2.3 Surface to Groundwater Migration Sampling 4-3
4.2.4 Field Quality Assurance/Quality Control Samples 4-3
4.2.5 Sample Preparation, Packaging, and Chain of Custody Procedures 4-4
4.2.6 Sample Preservation, Storage, and Holding Times 4-4
4.2.7 Laboratory and Analytical Methods 4-4
4.2.8 Decontamination Procedures 4-4
4.3 Management of Program-Derived Waste 4-4
4.4 Health, Safety, and Security 4-4
4.5 Quality Assurance 4-5
4.5.1 Field Instrument/Equipment Calibration and Frequency 4-5
4.5.2 Non-direct Measurements 4-5
4.5.3 Special Training/Certification 4-5

4.5.4 Data Generation and Acquisition....4-5
4.5.5 Data Validation and Usability....4-5
4.6 Supplemental Site Assessment Results....4-6
4.6.1 Surface Soil Sampling Results....4-6
4.6.2 Subsurface Soil Sampling Results....4-6
4.6.3 Sediment Sampling Results....4-6
4.6.4 Surface to Groundwater Migration Sampling Results....4-6
5. Revised Conceptual Site Model....5-1
5.1 Human Health Conceptual Site Exposure Model....5-1
5.2 Revised Ecological Conceptual Site Model....5-1
5.3 Conclusions and Recommendations....5-1
5.4 Reporting Schedule....5-2
6. References....6-1

Figures

Figure 2-1 Site Location Map....2-5
Figure 2-2 Sampling Locations (Downgradient 1)....2-6
Figure 2-3 Sampling Locations (Downgradient 2)....2-7
Figure 2-4 Sampling Locations (Upgradient 1)....2-8
Figure 2-5 Sampling Locations (Upgradient 2)....2-9
Figure 3-1 Preliminary Conceptual Site Exposure Model....3-7
Figure 3-2 Preliminary Ecological Conceptual Site Model....3-8
Figure 4-1 Sample Locations (Downgradient 1)....4-19
Figure 4-2 Sample Locations (Downgradient 2)....4-20
Figure 4-3 Sample Locations (Upgradient 1)....4-21
Figure 4-4 Sample Locations (Upgradient 2)....4-22
Figure 5-1 Revised Conceptual Site Exposure Model....5-3
Figure 5-2 Revised Ecological Conceptual Site Exposure Model....5-4

Tables

Table 4-1 Sample Location Information....4-9
Table 4-2 2021 Surface Soil Analytical Results....4-11
Table 4-3 2021 Subsurface Soil Analytical Results....4-13
Table 4-4 2021 Sediment Analytical Results....4-15
Table 4-5 2021 SPLP Analytical Results....4-17

Appendices

Appendix A Historical Soil Data (2011 and 2018)
Appendix B Regional Screening Level On-Line Calculator Output
Appendix C Data Validation Report
Appendix D Analytical Data Package
Appendix E Soil Boring Logs
Appendix F Derivation of Dilution Attenuation Factor

List of Acronyms

AECOM	AECOM Technical Services, Inc.
B&O	Baltimore and Ohio
bgs	below ground surface
CFR	Code of Federal Regulations
CoC	Chain-of-Custody
COPC	Constituent of Potential Concern
CSEM	Conceptual Site Exposure Model
CSM	Conceptual Site Model
CSR	Code of State Regulations
DAF	Dilution-Attenuation Factor
DRM	Dose Rate Model
DQO	Data Quality Objective
Eco-SSL	Ecological Soil Screening Level
ECSM	Ecological Conceptual Site Model
ERA	Ecological Risk Assessment
FOC	Friends of the Cheat
ft	feet or foot
GPS	Global Positioning System
GW-SW	Groundwater-Surface Water
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
HHRA	Human Health Risk Assessment
HQ	Hazard Quotient
HZ	Hyporheic Zone
LANL	Los Alamos National Laboratory
LRS	Licensed Remediation Specialist
mg/kg	milligrams per kilogram
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NJDEP	New Jersey Department of Environmental Protection
OSHA	Occupational Safety and Health Administration
PA	Pennsylvania
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PPE	Personal Protective Equipment
QA/QC	Quality Assurance/Quality Control
RAWP	Remedial Action Work Plan
RBR	RBR Consulting, Inc.

RL	Reporting Limit
ROW	Right-of-Way
RSL	Regional Screening Level
SAR	Site Assessment Report
SPLP	synthetic precipitation leaching procedure
SSS	Site-Specific Standard
Triad	Triad Engineering, Inc.
USCS	Unified Soils Classification System
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
VRP	Voluntary Remediation Program
WV	West Virginia
WVDEP	West Virginia Department of Environmental Protection

1. Introduction

AECOM Technical Services, Inc. (AECOM), on behalf of the Friends of the Cheat (FOC), prepared a Supplemental Site Assessment Report (SAR) for the Cheat River Rail-Trail Corridor (the "Site") in Preston County, West Virginia (WV).

1.1 Purpose and Scope

The purpose of this document is to describe the following:

- Current site conditions and previous investigations;
- Description of sampling and analysis;
- Results of February and March 2021 sampling events;
- Updated conceptual site model (CSM), which defines the soil, geologic, and hydrogeologic conditions at the Site, including the potential human health and ecological exposure pathways and receptors; and
- Recommendations for additional assessment, if warranted.

1.2 Report Organization

This Supplemental SAR has been organized into the following sections:

- **Section 1.0** introduces information regarding purpose, scope, and general reporting structure;
- **Section 2.0** summarizes general Site conditions, surrounding property use, previous investigations, applicable regulatory framework, project personnel, and the October 2020 Site visit;
- **Section 3.0** describes the physical setting of the Site and the preliminary CSMs developed for both the human health risk assessment (HHRA) and ecological risk assessment (ERA);
- **Section 4.0** provides a description of sampling and analysis, quality assurance, and site assessment investigation results;
- **Section 5.0** provides the revised CSMs for the HHRA and ERA, conclusions and recommendations, and reporting schedule;
- **Section 6.0** references documents used in the preparation of this report.

2. Site Background

These following subsections summarize the general Site conditions, surrounding property use, previous investigations, and applicable regulatory framework.

2.1 Site Location and Surrounding Uses

The Site property, a former railroad line right-of-way (ROW), is located in a mixed-use area of Preston County, WV. The location of the Site is shown on **Figure 2-1**. The property's tax parcel identification numbers are 6-41-13 and 01-17-42.1. The project corridor begins south of Kingwood, starting near Caddell Bridge (milepost 11.7, adjacent to Allegheny Wood Products), and runs south along the Cheat River approximately 9 contiguous miles parallel to the Cheat River and State Route 72 to Rowlesburg, WV. The project site ends near milepost 3.0, adjacent to Greer Industries' Cheat River Limestone operations. The rail bed averages approximately 30 feet (ft) in width, and the ROW averages 80 ft in width along the entire length of the site, totaling approximately 100 acres.

The general ecological setting of the Site consists of typical Allegheny Highlands vegetation and landforms (hardwood forests interspersed with intermediate shrub wetlands and boulders). Compacted gravel (ballast) covers most portions of the trail throughout the Site. The ROW runs along the western side of the Cheat River on the northern portion and then crosses the river via a bridge and runs along the eastern side of the Cheat River. Several tributaries of the Cheat River intersect the Site. Approximately 94 drainage culverts channel surface runoff and connect the ROW to the downgradient Cheat River or adjacent wetlands. Within the ROW, shallow drainage depressions run parallel along portions of the trail. These drainage depressions either direct runoff into the culverts or, as seen in the northern portions of the ROW, act as vegetation buffers between State Route 72 and downgradient areas.

Undeveloped land owned by either Allegheny Forestlands LLC or FOC surrounds the majority of the Site; however, in several areas, the Site is adjacent to commercial/industrial properties, and, limited residences and seasonal homes exist adjacent to the ROW. In the northern section of the Site, previously Chemetals Inc. (aka Volkstone Chemical), a former manganese plant, adjoins the ROW under investigation. The United States government owns land adjacent to the northern portion of the ROW and uses this land for training related to the Army National Guard's Camp Dawson. Further south, near Heather Run and the bridge crossing Cheat River, the west and east sides of the Site are adjacent to residential and seasonal properties.

2.2 Site History

The Site is a former railroad ROW previously owned by CSX Transportation, Inc. The Site had been developed as a railroad since at least 1907 and was formerly called the Morgantown and Kingwood Railroad and the Baltimore and Ohio (B&O) Railroad. CSX removed the railroad tracks in 2008; however, creosote-treated railroad ties still remain on portions of the rail corridor. The WV State Railway Authority currently owns the Site, which is currently leased by FOC.

The Site has been proposed for redevelopment by the FOC for recreational use as a "Rails-to-Trails" hiking and biking trail – referred to as the "Cheat River Trail". As currently envisioned, redevelopment will include construction of a trail cover for the ease and benefit of future trail walkers and bikers and replacement of several drainage culverts (Triad, 2012).

2.3 Previous Investigations

Several phases of environmental investigations and reports have been completed along the rail corridor for various interested parties, including a *Phase II Environmental Site Assessment* (Triad Engineering, Inc. [Triad], 2012), a *Human Health Risk Assessment* (RBR Consulting, Inc. [RBR], 2012), and a *Supplemental Sampling Report* (AECOM, 2019).

In 2011, RBR collected unbiased soil samples in a diagonal pattern – selected to account for recreational visitors leaving the center of the trail. The samples were spaced approximately 800 ft apart. Twenty-two samples were collected from the eastern portion of the ROW and designated as “SS#A”; seven samples were collected from the center portion of the ROW and designated as “SS#B”, and fifteen samples were collected from the western portion of the ROW and designated as “SS#C”. In addition, five surface samples were collected in areas observed to be trespassed frequently or desirable for off-trail use but still within the Site. These off-trail samples were designated as “SS#D”. One composite sample for polychlorinated biphenyls (PCBs) was collected adjacent to the former Chemetals, Inc. property and designated as “SS#P”.

A total of fifteen surface soil samples were collected at approximate 210 ft intervals along the rail corridor on December 6, 2018. Following the CSXT Exhibit B Minimum Sampling Requirements, each sample was a composite of five subsamples collected from the upper six inches of soil at each location area. The sample locations were sequentially numbered SB-1 through SB-15.

Appendix A presents the soil sampling results from the previous 2011 and 2018 soil sampling events. Constituents of potential concern (COPCs) were identified based on a comparison of the surface soil data to West Virginia Department of Environmental Protection (WVDEP) Residential De Minimis Screening Levels (WVDEP, 2020). These previous studies identified the following eight COPCs:

- Arsenic
- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Dibenz(a,h)anthracene
- Indeno(1,2,3-cd)pyrene

To further assess potential impacts to future recreators of the Cheat River Trail, site-specific standard (SSS) recreator screening values were developed for each soil COPC. Both adult and child recreator receptors were considered in the screening value development. Exposure factors recommended by WVDEP for recreational land use were used in conjunction with the United States Environmental Protection Agency’s (USEPA’s) Regional Screening Level On-Line Calculator to derive the SSS screening values (WVDEP, 2020). The SSS recreator screening values were based on the lower (most conservative) value of those derived for carcinogenic and non-carcinogenic endpoints. **Appendix A** identifies the SSS recreator screening values for each COPC identified in surface soil. The calculator output is provided in **Appendix B**.

SSS recreator screening values for constituents with carcinogenic effects were based on an excess cancer risk of 1 in 1,000,000 (1×10^{-6}) to account for cumulative risk. SSS recreator screening values for COPCs with non-carcinogenic effects were based on a hazard quotient (HQ) of 1 due to the limited number of COPCs. The future recreator screening identified the following two COPCs:

- Arsenic
- Benzo(a)pyrene

Figures 2-2 through 2-5 present the locations for samples collected during the 2011, 2018 and 2021 events.

2.4 Regulatory Framework

Site work was performed pursuant to the requirements of WVDEP Voluntary Remediation and Redevelopment Rule (W. Va. Legislative Rule 60CSR3), Voluntary Remediation and Redevelopment Act (W. Va. Code § 22-22-1, et seq.), and the WVDEP VRP Guidance Manual (WVDEP, 2020). Per WVDEP Voluntary Remediation Program (VRP) guidance, a Licensed

Remediation Specialist (LRS), licensed by WVDEP, has been engaged to oversee all investigation/remediation activities.

2.5 Project Personnel and Roles

The Project Manager and LRS are Owen Mulkeen (FOC) and Matthew Watson (AECOM), respectively. Field activities described within this report were led by Jason Newman (AECOM). The subsequent risk assessments will be performed by Kaylin Lewine (AECOM, HHRA) and April Brandon (AECOM, ERA), with senior review provided by Gretchen Welshofer (AECOM).

Key project personnel and subcontractors for the current project phase are listed below along with their associated primary roles.

Project Chain of Command and Project Roles

Friends of the Cheat-Applicant
Amanda Pitzer – Director
Owen Mulkeen – Associate Director

WV State Railway Authority – Property Owner
Cindy Butler – Director

AECOM Technical Services
David Weaver – Project Manager
Matthew Watson – LRS
Gretchen Welshofer – Senior Risk Assessor
Kaylin Lewine – Risk Assessor
April Brandon – Risk Assessor
Jake Wilhelm – Risk Assessor
Tara Bhat – Risk Assessor
Tyler Bryant – Project Chemist
Jason Newman – Lead Field Technician
Kevin Booton – Field Technician

Downstream Strategies
Marc Glass – Technical Support

WVDEP
Matt Gadd – Office of Environmental Remediation Project Manager
Ross Brittain – Environmental Toxicologist

Subcontractors
Enviroprobe – Drilling Contractor
Pace Analytical – Laboratory Contractor
Capital Services – Waste Contractor

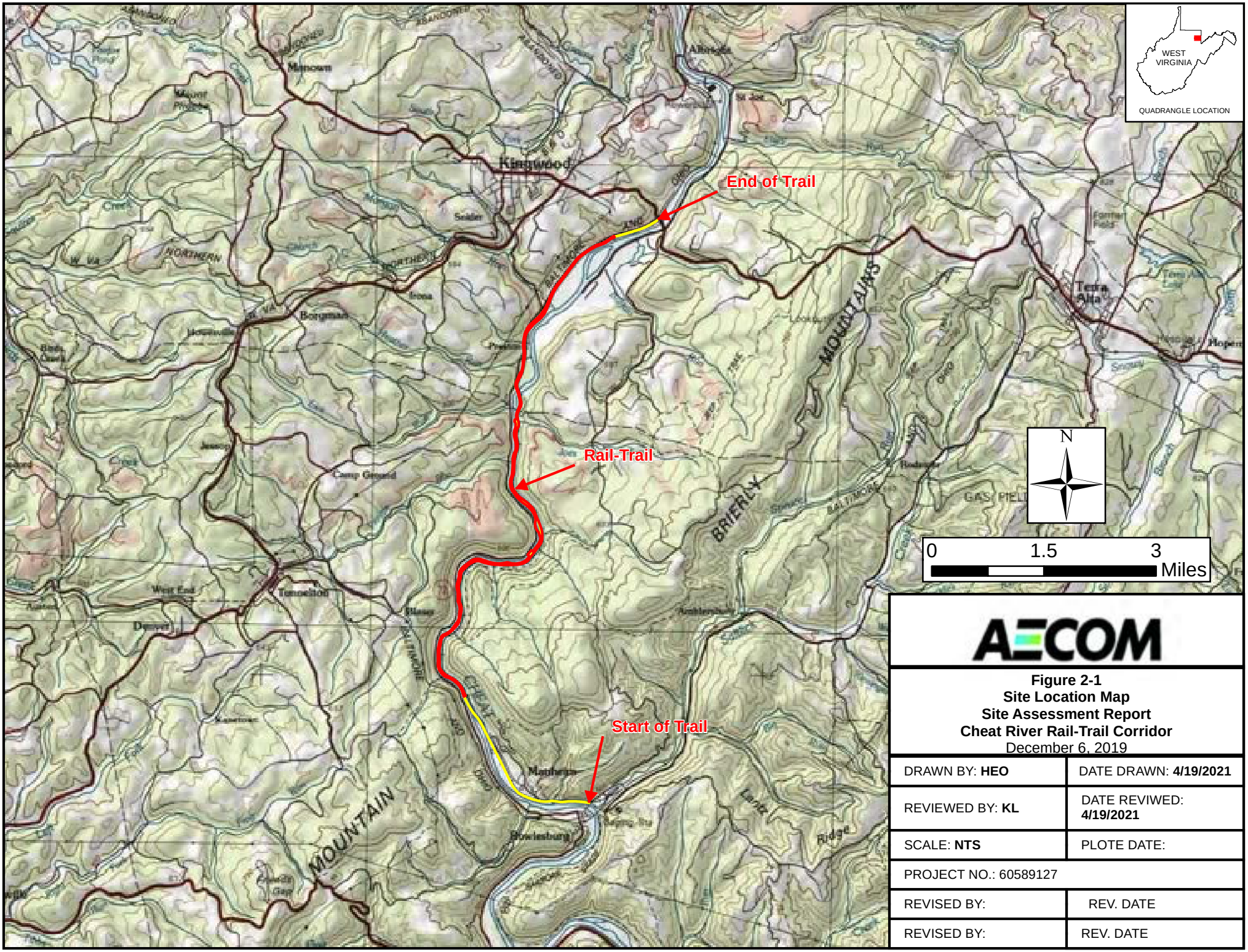
2.6 Summary of October 2020 Site Visit

Members from FOC (Owen Mulkeen) and AECOM (David Weaver, Matthew Watson, and Adam Dec) met with WVDEP (Matt Gadd and Ross Brittain) on October 9, 2020 to go over general expectations regarding VRP implementation and options available to assess potential risk at the Site. Given knowledge of potential impacts to human receptors and lack of previous ecological risk assessments, AECOM (Adam Dec) presented the current SSS proposals for both the HHRA and ERA to WVDEP (Ross Brittain) and the overall project team. WVDEP (Ross Brittain) explained the other options available (i.e., De Minimus and Uniform Standards) for FOC and AECOM to explore pending the proposed sampling efforts.

After this initial meeting, the project team began the Site visit by crossing the former rail bridge across the Cheat River to follow the ROW south along the eastern portion of the Site. Some permanent and seasonal residences were noted adjacent to the ROW. Additionally, representative culverts were shown to indicate the potential migration of sediment from the drainage depressions that run parallel to the ROW and feed directly into the culverts and subsequently the Cheat River. The project team moved to the northern section of the ROW associated with the Army National Guard training areas. WVDEP noted that the hydraulic regime noticeably changes within this northern portion, and attention would need to be paid to migration into the downgradient forested/shrub wetlands. Additionally, WVDEP noted that drainage depressions along this section were more likely to be altered by a future utility worker due to proximity near the roadside and vegetation buffers.

At the conclusion of the Site visit, the project team discussed the proposed sampling efforts and use within the SSS HHRA and ERA reports. The items discussed are summarized below:

- Soil samples will be collected to supplement current soil dataset and provide opportunity for a 10 percent % Stage 4 Data Validation;
    - Surface soil will be defined as the first 0 to 2 ft depth interval below the ballast, where native soil supports vegetation.
    - Previously collected soil samples north and south of the VRP Site boundary will be used within the risk assessments to evaluate overall exposure across the Site. The areas outside of the VRP Site boundary are not leased by FOC and cannot be included within the current VRP application. However, they do exist between the trail start and endpoint and would provide a more accurate representation of exposure.
- Eight representative culverts will be selected during the upcoming field investigation to provide co-located, upgradient sediment and synthetic precipitation leaching procedure (SPLP) and downgradient sediment; and
    - Upgradient sediment will be biased towards the entrance of each culvert.
    - Upgradient SPLP results will be used to evaluate potential migration of COPCs from soil into groundwater.
    - Downgradient sediment will be collected at the base of each culvert prior to discharge into the Cheat River.
    - Due to the varied substrate, terrain, and surrounding habitat of the 90 plus culverts, determinations within the field will be made for specific locations.
        - At least two culverts from the northern portion of the trail will be sampled to evaluate ecological impacts to downgradient wetlands.
- Due to the rural nature of the trail, the future recreator will be evaluated using the camping scenario as described within Appendix C of WVDEP (2020) – representing exposure of 14 days per year for 24 hours per day.



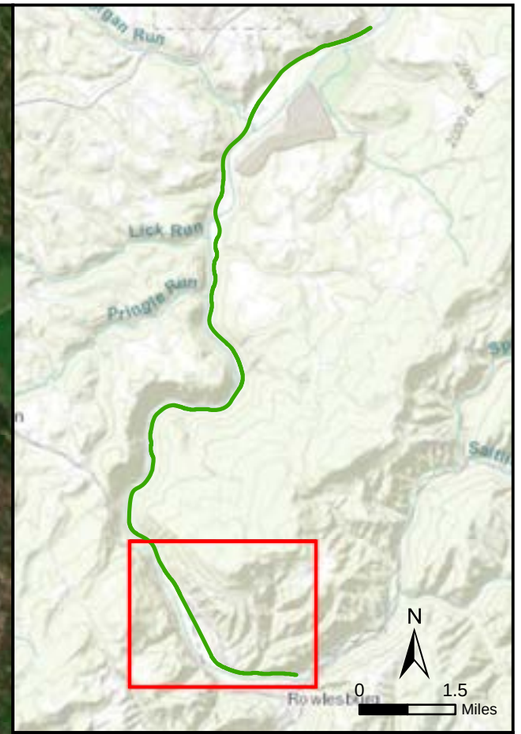
AECOM

Figure 2-1
Site Location Map
Site Assessment Report
Cheat River Rail-Trail Corridor
December 6, 2019

DRAWN BY: **HEO**	DATE DRAWN: **4/19/2021**
REVIEWED BY: **KL**	DATE REVIWED: **4/19/2021**
SCALE: **NTS**	PLOTE DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

Document Path: D:\2008-Projects\Friends of the Cheat Rail-Trail\900_CAD_GIS\GIS\MXDs\April_2021\Site_Location.mxd

Match Line - See Figure 2-3



AECOM

Figure 2-2
Sample Locations
Site Assessment Report
Cheat River Rail-Trail Corridor

Legend

- Sample Locations, 2021
- Sample Locations, 2011
- Site Boundary
- Rail-Trail
- 160+00 Station Location

0 0.25 0.5 Miles

GIS BY: **SK**	DATE MODIFIED: **5/24/2021**
REVIEWED BY: **KL**	DATE REVIEWED: **5/24/2021**
SCALE: **TS**	PLOT DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

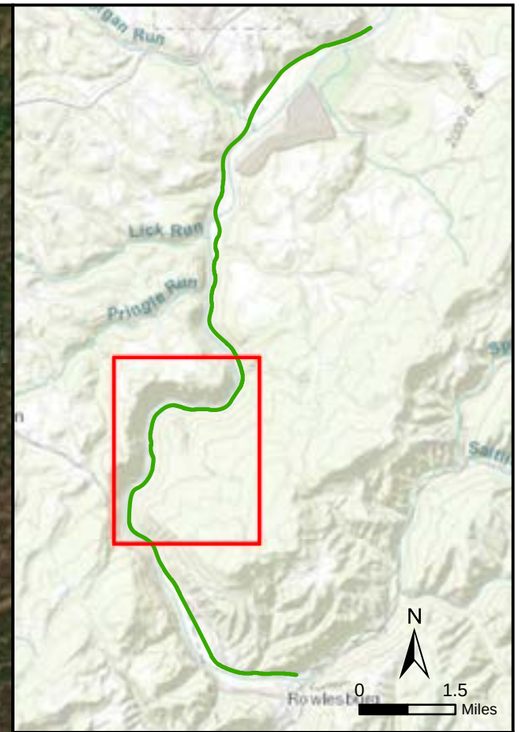
Document Path: L:\DCS\Projects\ENV\GEARS\GEO\Cheat_River\Friends_of_the_Cheat_Rail_Trail\900_CAD_GIS\GIS\MXDs\April_2021\Fig_2-2_First_Sample_Locations.mxd

Match Line - See Figure 2-4

SS-39A
SSS-6
SSB-6
SS-3D
330+00
335+00
340+00
345+00
SS-40C
SS-2D
SS-37C
MP (BAJ) 6.0
SS-36A
315+00
310+00
SS-35B
305+00
300+00
SS-34C
295+00
290+00
SS-33A
SSS-5
SSB-5
285+00
280+00
275+00
270+00
WV-72 River Road
Cheat River
265+00
260+00
255+00
250+00
245+00
240+00
235+00
230+00
SS-25C
225+00
SS-30A
MP (BAJ) 5.0
SS-28C
SSS-4
SSB-4
SS-27A
220+00
SS-24A
215+00
MP (BAJ) 4.0
210+00
205+00
200+00
195+00
190+00
185+00
180+00
175+00
SS-19C
SS-21A
SSS-3
SSB-3
SS-1D

N

Match Line - See Figure 2-2



AECOM

Figure 2-3
Sample Locations
Site Assessment Report
Cheat River Rail-Trail Corridor

Legend

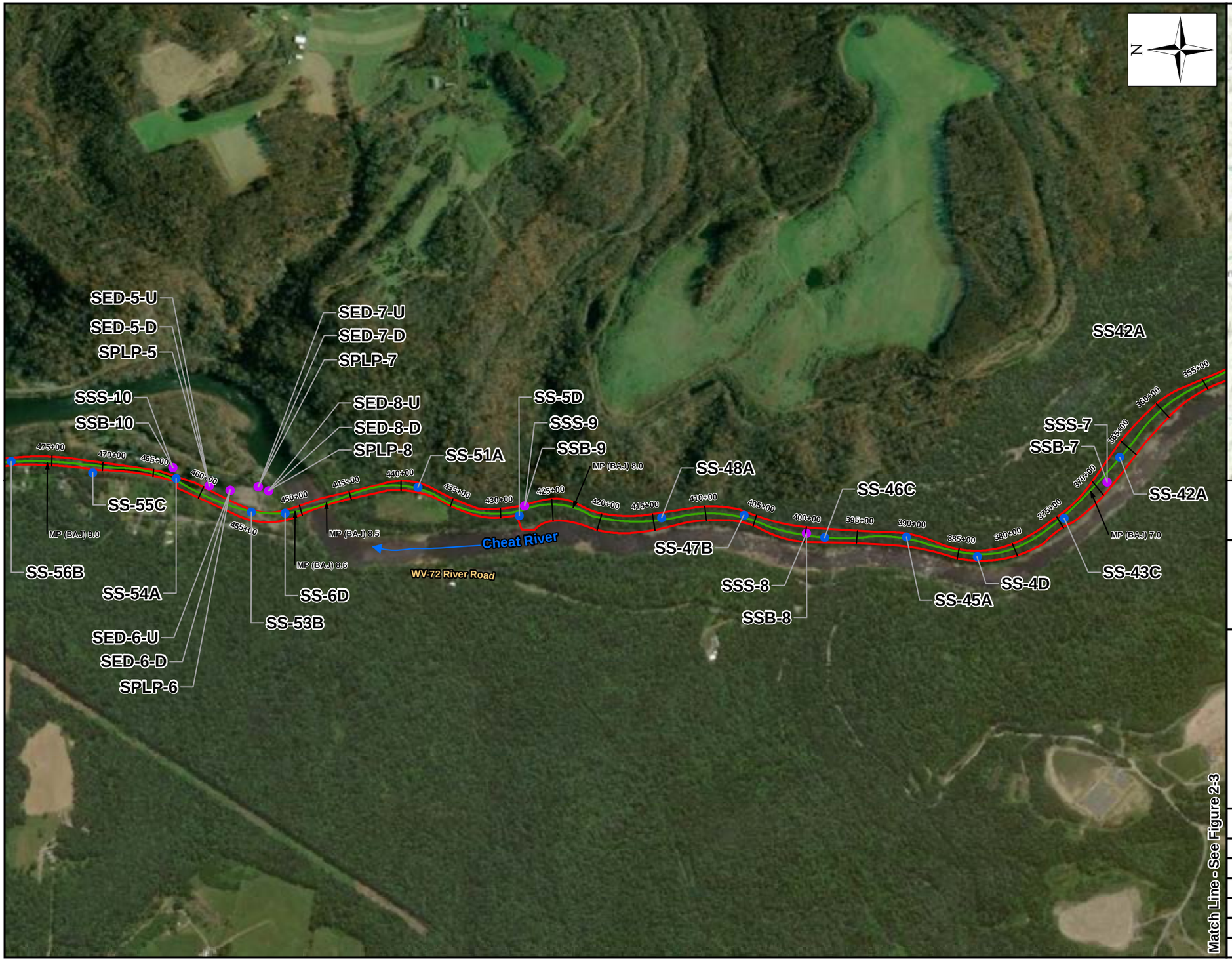
- Sample Locations, 2021
- Sample Locations, 2011
- Site Boundary
- Rail-Trail
- 175+00 Station Location

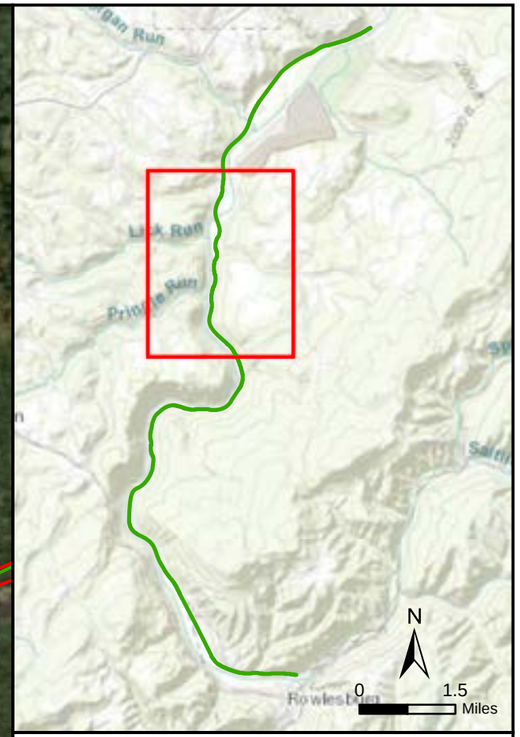
0 0.25 0.5 Miles

GIS BY: **SK**	DATE MODIFIED: **5/24/2021**
REVIEWED BY: **KL**	DATE REVIWED: **5/24/2021**
SCALE: **TS**	PLOT DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

Document Path: L:\DCS\Projects\ENV\GEARS\GEO\Cheat_River\Friends_of_the_Cheat_Rail_Trail\900_CAD_GIS\GIS\MXDs\April_2021\Fig_2-3_Second_Sample_Locations.mxd

Match Line - See Figure 2-5





AECOM

Figure 2-4
Sample Locations
Site Assessment Report
Cheat River Rail-Trail Corridor

Legend

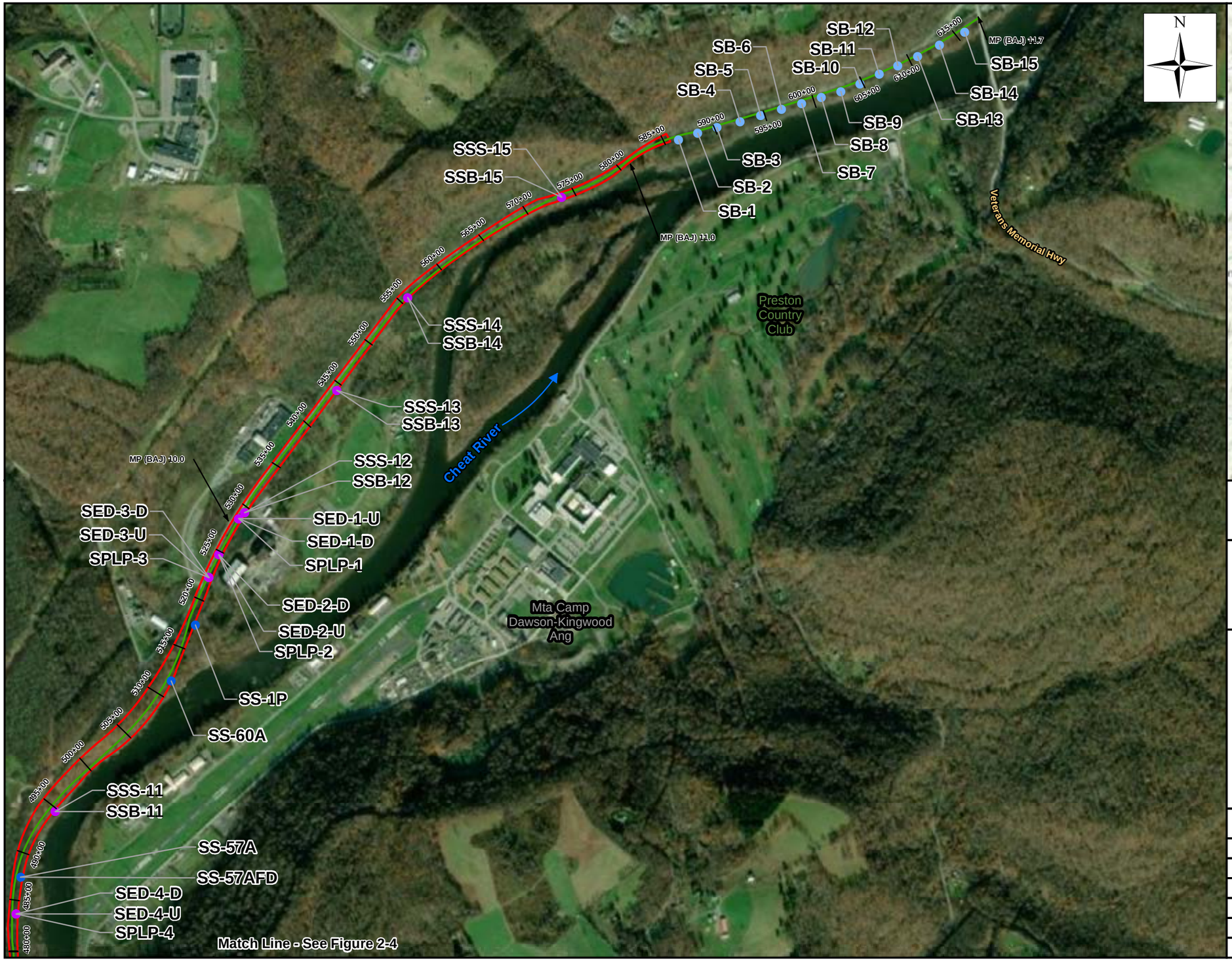
- Sample Locations, 2021
- Sample Locations, 2011
- Site Boundary
- Rail-Trail
- 355+00 Station Location

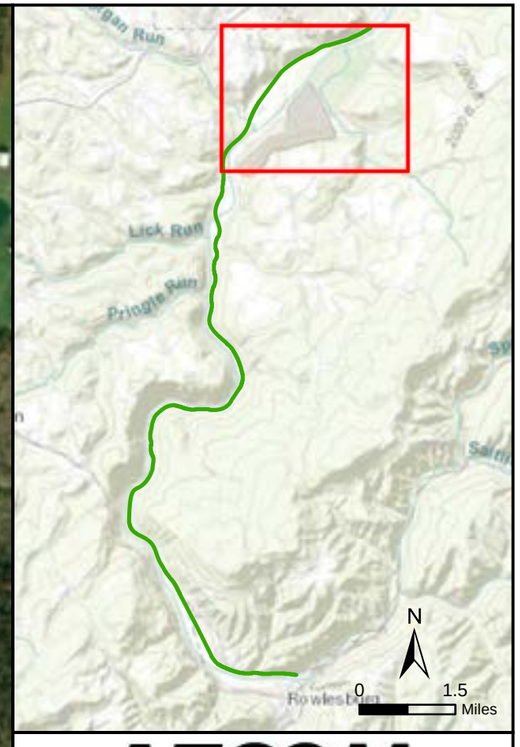
0 0.25 0.5 Miles

GIS BY: **SK**	DATE MODIFIED: **5/24/2021**
REVIEWED BY: **KL**	DATE REVIEWED: **5/24/2021**
SCALE: **TS**	PLOT DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

Match Line - See Figure 2-3

Document Path: L:\DCS\Projects\ENV\GEARS\GEO\Cheat_River\Friends_of_the_Cheat_Rail_Trail\900_CAD_GIS\GIS\MXDs\April_2021\Fig_2-4_Third_Sample_Locations.mxd





AECOM

Figure 2-5
Sample Locations
Site Assessment Report
Cheat River Rail-Trail Corridor

Legend

- Sample Locations, 2021
- Sample Locations, 2018
- Sample Locations, 2011
- Site Boundary
- Rail-Trail
- 480+00 Station Location

0 0.25 0.5 Miles

GIS BY: **SK**	DATE MODIFIED: **5/24/2021**
REVIEWED BY: **KL**	DATE REVIEWED: **5/24/2021**
SCALE: **TS**	PLOT DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

Document Path: L:\DCS\Projects\ENV\GEARS\GEO\Cheat_River\Friends_of_the_Cheat_Rail_Trail\900_CAD_GIS\GIS\MXDs\April_2021\Fig_2-5_Fourth_Sample_Locations.mxd

3. Preliminary Conceptual Site Model

A preliminary CSM was developed based on historical operations, environmental investigation data, the general Site setting, physical and chemical properties of Site-related constituents of interest, and potential human health and ecological receptors and exposure pathways. The preliminary CSM is comprised of two sub-models: an ecological CSM (ECSM) that identifies potential migration routes, valued habitat, and ecological receptors that may be impacted by historical operations, and a conceptual site exposure model (CSEM) for potential human receptors. The following sections describe each of the sub-models.

3.1 Physical Setting

This subsection describes the physical setting of the Site and details processes (hydrogeology and surface hydrology) that were used to formulate the preliminary CSM.

3.1.1 Site Geology

The Site lies within the Allegheny Highlands subsection of the Appalachian Plateau Physiographic Province. The Allegheny Highlands consists predominantly of deeply dissected, Pennsylvania-Mississippian (Lower-Middle Carboniferous) aged, clastic, sedimentary rocks such as sandstone, siltstone, and shale interbedded with coal and some limestone. The bedrock is gently folded, with the main structural features being the Kingwood Syncline and the Briery Anticline. The oldest rocks along the trail outcrop in the vicinity of Rowlesburg, WV, along the eastern flank of the Briery Anticline. The Mississippian aged Greenbrier Limestone is quarried in the area. The youngest rocks along the trail follow the axis of the Kingwood syncline represented by the Allegheny Group, which is noted for the presence of coal seams that have been extensively mined in the area (Hennen and Reger, 1914).

The unconsolidated materials at the Site are predominantly silt loams, with some sandy loams from the Dekalb, Buchanan, Ernest, Gilpin series, which consist of moderately deep, well-drained soils that formed in recent sandstone and shale residuum (United States Department of Agriculture [USDA], 2004 and 2020). Finer-grained materials grade to more gravelly deposits with depth. Soils are on nearly level to very steep uplands and ridges. Anthropogenic fill materials associated with the former railroad construction and maintenance activities are encountered along the roadways and other areas of modified land surface.

3.1.2 Site Hydrology and Hydrogeology

Groundwater in the colluvial material along the valley slopes and tributaries valleys is expected to occur along the soil-bedrock interface and flow down-slope following the bedrock surface topography. The groundwater within the alluvial material associated with the main Cheat River Valley and larger tributaries is expected to be encountered by course-grained alluvium with cobbles and boulders. Groundwater elevation and flow direction are expected to be highly influenced by the bedrock topography with a significant down valley component generally following the top of the underlying bedrock. At higher river stage conditions, local groundwater flow direction could vary temporarily away from the river.

3.1.3 Surface Water

The portion of the Cheat River that borders the site is classified by WVDEP as a “Tier 1” waterway. All waters in WV are assigned to specific tiers depending upon the level of protection necessary to maintain high quality and/or existing uses. The higher the tier, the more stringent the requirements are for protection. A Tier 1 waterway is considered impaired due to specific

pollutant, which for this section of the Cheat River, is fecal coliform. In addition, various tributaries to the Cheat are impaired due to metals and pH (FOC, 2005).

3.2 Preliminary Human Health Conceptual Site Exposure Model

A preliminary CSEM was developed to identify potential exposure pathways and human receptors that may be exposed to Site-related constituents detected in environmental media, and to support scoping of the site assessment investigations. In developing the CSEM, Site-related COPCs, environmental fate and transport mechanisms, current and potential future land uses, and site and vicinity populations were considered. The preliminary CSEM is summarized on **Figure 3-1**. Discussion regarding potential migration and exposure pathways, and potential receptors considered in the preliminary CSEM, and the basis for identifying potentially complete and incomplete pathways is provided below.

The CSEM will be updated as part of the HHRA to be conducted following completion of the Supplemental Site Assessment investigation, and the final CSEM will be presented in the HHRA Report for the Site.

3.2.1 Potential Transport Mechanisms

Potential migration pathways for COPCs in environmental media at the Site were identified based on readily available information regarding chemical and physical properties of potential COPCs, and the physical, topographic, and hydrologic conditions at the Site. Environmental media within the vicinity of the Site include soil, sediment, groundwater, and surface water. As discussed previously, COPCs for the Site are polycyclic aromatic hydrocarbons (PAHs) and metals. COPCs may be presently adsorbed to soils, sediment and/or dissolved in groundwater/surface water. PAHs are typically of low volatility and solubility, thus lateral migration from source areas is generally limited. Metals are naturally occurring and may be ubiquitous at background concentrations in site media. Metals are typically of low solubility, thus their presence in dissolved phase and potential for migration in the subsurface is typically limited. Given these considerations, migration and transport of COPCs to potential human receptors is limited to the following potential migration pathways:

- Airborne transport of dust (particulates) from onsite exposed surface and subsurface soils resulting from wind erosion or physical disturbance of soils;
- Volatilization and vapor transport of volatile PAHs in soils and groundwater to outdoor air;
- Overland transport of COPCs in sediment and surface water;
- Leaching of constituents in soil to groundwater; and
- Migration of dissolved constituents in groundwater to surface water onsite and/or in the Cheat River.

3.2.2 Potential Receptors

Potential receptors are defined as human populations or individuals and environmental systems that are susceptible to constituent exposure from the Site. Both current and future land use conditions are considered in identifying potential receptors and exposure scenarios.

The current and future potential receptors include the on-site child and adult park recreator and outdoor park worker. Outdoor workers are defined as adults who perform work activities exclusive of subsurface disturbance activities (e.g., digging and excavation).

The future-only exposure scenarios, which is used to address site conditions that have changed due to land re-development and/or other potential excavation activities, include the on-site utility

worker and the construction worker. Soil excavation activities with possible land re-development could bring subsurface soil to the surface, and the soils are “mixed” together creating a total soil exposure point (i.e., soil depths ranging from 0 to 10 ft below ground surface [bgs]). Construction and utility workers are defined as outdoor workers who perform subsurface disturbance work such as digging and excavation, and construction, maintenance, repair, and/or demolition of equipment, utilities or other structures.

3.2.3 Potential Exposure Pathways

An exposure pathway is comprised of the following:

- A source and mechanism of constituent release to the environment;
- A transport or exposure medium containing the constituent;
- An exposure point where receptors (humans) can contact the exposure medium; and
- An exposure route (e.g., inhalation, ingestion, direct contact).

All of these above elements must be present for an exposure to occur. The absence of any one of these elements results in an incomplete exposure pathway for which Site-related risks do not currently exist or are not expected to occur in the future.

Based on the potential migration pathways and the nature of Site-related COPCs discussed above, the following potential exposure pathways were considered in the preliminary CSEM.

- Direct (dermal) contact and incidental ingestion with COPCs in soil and groundwater;
- Incidental ingestion and inhalation of COPCs in dust and particulate matter;
- Inhalation of volatile COPCs in outdoor air; and
- Direct contact and incidental ingestion of COPCs in surface water and sediment.

Volatile constituents present in soil can be released to ambient air through volatilization, one of the constituents identified as a COPC for soil is considered to be sufficiently volatile (benzo[a]anthracene); therefore, inhalation of volatile constituents in ambient air is considered a potential exposure pathway.

3.2.4 Potentially Complete and Incomplete Pathways

As previously noted, all four elements of an exposure pathway must be present for an exposure to occur. Mitigating factors are also considered in evaluation of the completeness of an exposure pathway using logical and scientifically defensible reasoning based on site-specific understanding of site conditions and operations. Mitigating factors may include covers that minimize the potential for direct contact, water use restrictions and other institutional controls established to minimize worker exposure, and/or the nature of COPC. Mitigating factors on-site under current use and operations include the following:

- Gravel, asphalt paving, or vegetated cover on the majority of site soils, which serves to mitigate incidental ingestion, dermal contact and potential dust generation; and
- The site deed restricts site use to recreational only and prevents residential use and potable use of groundwater.

The following are the potentially complete pathways:

- **Current/future adult/child recreator:** The child (ages 0 to 6 years old) and adult recreator visit the site for recreational purposes and are assumed to be exposed to surface soil (current) and total soil (future), as well as sediment, surface water, and groundwater. Soil-related exposure pathways include incidental ingestion, dermal

contact, and inhalation of wind-blown particulates and/or vapors from soil. Sediment and surface water-related exposure pathways include incidental ingestion and dermal contact. The recreator would be exposed to groundwater via inhalation of vapors migrating from groundwater to outdoor air.

- **Current/future outdoor park worker:** The outdoor park worker periodically visits the Site to inspect the property and conduct outdoor maintenance activities. The outdoor worker is assumed to be exposed to surface soil (current) and total soil (future), as well as sediment, surface water, and groundwater. Soil-related exposure pathways include incidental ingestion, dermal contact, and inhalation of wind-blown particulates and/or vapors from soil. Sediment and surface water-related exposure pathways include incidental ingestion and dermal contact. The worker would be exposed to groundwater via inhalation of vapors migrating from groundwater to outdoor air.
- **Future construction worker:** The future on-site construction worker is assumed to be involved in a year-long construction project at the Site. Soil-related exposure pathways include incidental ingestion, dermal contact, and inhalation of wind-blown particulates and/or vapors from total soil (0 to 10 ft bgs). Depth to groundwater at the site was unknown ; therefore, incidental ingestion, dermal contact, and inhalation of groundwater vapors with shallow groundwater seeping into an excavation trench could not be ruled out. The excavation is estimated to extend to approximately 10 ft bgs.
- **Future utility worker:** Soil-related exposure pathways for the future on-site utility worker include incidental ingestion, dermal contact, and inhalation of wind-blown particulates and/or vapors from total soil (0 to 10 ft bgs). Groundwater-related exposure pathways include inhalation of vapors from groundwater in a utility line trench, which anticipated to extend to 4 ft bgs. Exposure for the utility worker will be based on parameters listed by the Risk Assessment Information System (https://rais.ornl.gov/index.html) for the excavation worker.

3.3 Preliminary Ecological Conceptual Site Model

A preliminary ECSM was developed to depict the potential source areas, exposure media, and migration pathways used to identify significant exposure pathways for evaluation in the ERA Report (**Figure 3-2**). The ECSM will be further refined within the ERA Report based on findings from the investigation. The ECSM includes the following information:

- Potential source area(s)
- Potential migration pathways
- Exposure media
- Complete and incomplete exposure pathways for potential ecological receptors via the following exposure routes:
    - Direct contact/absorption
    - Direct or incidental ingestion of substrate
    - Ingestion of prey and plant dietary items

Potential Source Area(s)

The potential source area within the Site is related to the former railroad ROW previously owned by CSX Transportation, Inc. The project corridor varies in width and averages about 80 to 90 ft wide and extends approximately 9 miles parallel to the Cheat River and State Route 72 (roughly 100 acres). Previous investigations have indicated potential impacts related to degradation of creosote-treated railroad ties located within the rail corridor. The Site is no longer used as a

railway corridor; however, treated railroad ties may be still present, and the Site is being proposed for redevelopment to allow access for recreational users.

Potential Migration Pathway(s)

The evaluation and identification of potentially complete migration pathways is one of the primary goals of an ERA (USEPA, 1997). As defined, a "migration pathway" is the pathway by which a constituent travels from a source to receptors. A pathway can involve multiple media such as erosion of soil to stream sediments, or volatilization to the atmosphere. Historical releases to soil/weathering of creosote treated railroad ties and subsequent erosion/dissolution of constituents (i.e., metals and PAHs) into groundwater and transport to the environment within and around Cheat River represent the primary release mechanisms at the Site.

Migration pathways that will be evaluated within the ERA Report include:

- Erosion of surface soil
    - The railroad corridor is elevated above the Cheat River with a steep slope leading into the Cheat River (approximately 40 vertical ft over a 150-ft distance to the river in upstream areas). Given the topography and orientation relative to aquatic environments, stormwater runoff from significant rain events could transport suspended substrate off-Site to the Cheat River.
- Groundwater discharge to the Cheat River
    - Groundwater discharge to semi-aquatic and aquatic habitats associated with the Cheat River may potentially occur as upwelling within the groundwater-surface water (GW-SW) transitional zone or hyporheic zone (HZ). USEPA defines the GW-SW transition zone as "a region beneath the bottom of a surface-water body where conditions change from a ground-water dominated to surface-water dominated system within the substrate." (USEPA, 2008a).
    - The transitional zone also includes the HZ, which represents the interface of groundwater, sediment, sediment porewater, and surface water. USEPA defines the HZ as a "latticework of underground habitats through the sediments associated with the interstitial waters in the substrate beneath and adjacent to moving surface-waters." (USEPA, 2008a).

3.3.1 Potential Ecological Receptors and Relevant Exposure Routes

The ERA Report will present a formal description of habitats and potential ecological receptors (both common and rare/sensitive, as applicable) within and near the Site. The information presented will be compiled from field activities during this investigation, historical reports for the Site, and a desktop review of state and federal resources. Potential wildlife receptors not confirmed during field activities will be reviewed using online databases such as NatureServe.

Within the ERA Report, impact to potential ecological receptors will be assessed using surrogate species commonly used within ERAs for their availability of relevant exposure and life history studies (USEPA, 1993 and 2007; Sample and Suter, 1994). These surrogate species will provide an assessment endpoint to the overall management goal of maintaining wildlife populations and communities. Terrestrial and aquatic ecological receptors proposed for the ERA Report may be modified depending on the potential for rare/sensitive species. The proposed receptors and relevant exposure routes are listed below:

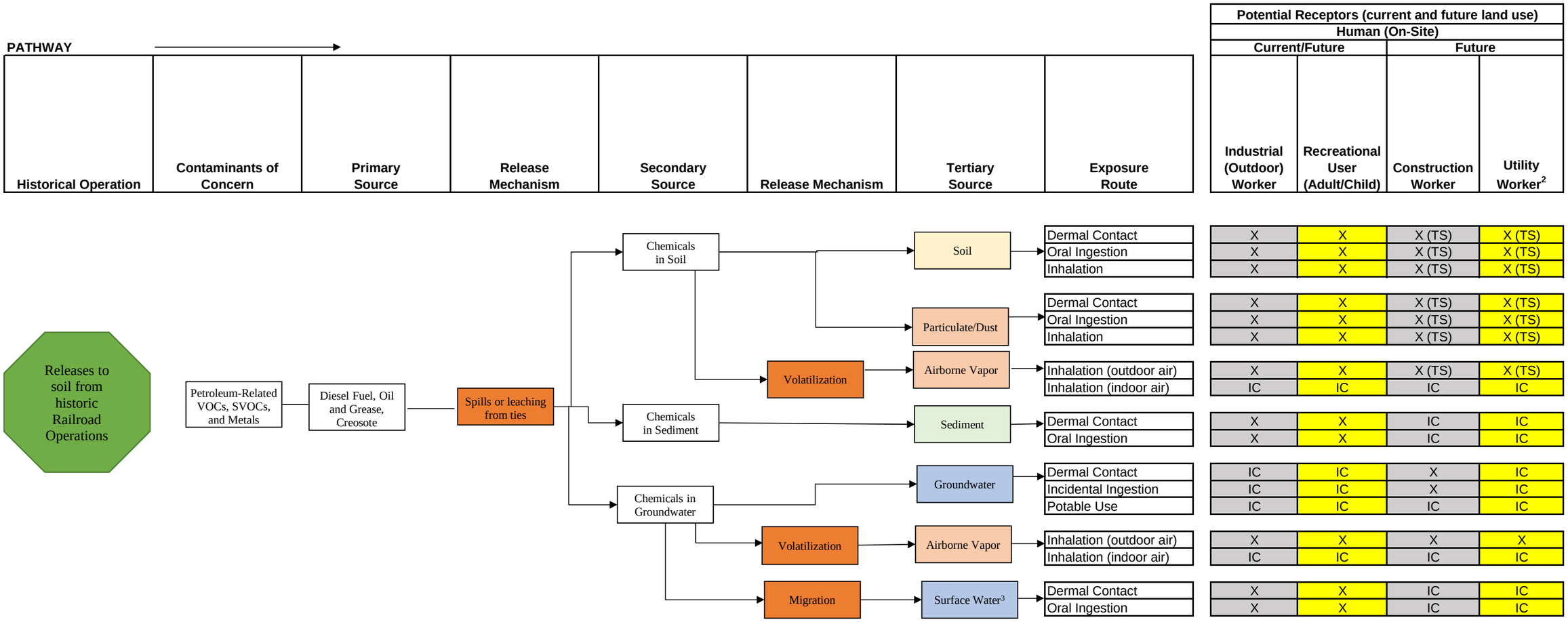
- Terrestrial receptors (surface soil; 0 to 2 feet)
    - Terrestrial plant community (direct contact/exposure to soil)
    - Soil macroinvertebrate community (direct contact/exposure to soil)

    - Terrestrial wildlife (incidental ingestion of soil and ingestion of prey items)
        - Mammalian herbivore: Deer mouse (*Peromyscus maniculatus*)
        - Mammalian invertivore: Short-tailed shrew (*Blarina brevicauda*)
        - Mammalian carnivore: Gray fox (*Urocyon cinereoargenteus*)
        - Avian herbivore: American woodcock (*Scolopax minor*)
        - Avian invertivore: American robin (*Turdus migratorious*)
        - Avian carnivore: Red-shouldered hawk (*Buteo lineatus*)
- Aquatic and semi-aquatic receptors (sediment and surface water)
    - Benthic macroinvertebrate community (direct contact/exposure to sediment and surface water)
    - Aquatic and semi-aquatic wildlife (incidental ingestion of sediment, direct ingestion of surface water, and ingestion of prey items)
        - Mammalian invertivore: Little brown bat (*Myotis lucifugus*)
        - Mammalian piscivore: American mink (*Neovison vison*)
        - Avian invertivore: Spotted sandpiper (*Actitis macularius*)
        - Avian piscivore: Osprey (*Pandion haliaetus*)

3.3.2 Management Goals with Assessment and Measurement Endpoints

The evaluation of the previously listed ecological receptors and exposure routes will allow the ERA Report to focus on the specific management goals for the Site. The management goals with applicable assessment and measurement endpoints are identified below:

Management Goal	Assessment Endpoint	Measurement Endpoint
Limit potential for adverse effects to ecological receptors via direct exposure routes.	Survival, growth, and reproduction of the soil macroinvertebrate community.	Comparison of constituent concentrations in soil to ecotoxicity benchmarks for soil macroinvertebrates.
	Survival, growth, and reproduction of the benthic macroinvertebrate community.	Comparison of constituent concentrations in sediment and surface water to ecotoxicity benchmarks for benthic macroinvertebrates.
Limit potential for adverse effects to ecological receptors via prey items and potential bioaccumulation.	Survival, growth, and reproduction of the avian/mammalian herbivore communities.	Comparison of modeled daily doses for constituents above wildlife benchmarks to a toxicity reference value).
	Survival, growth, and reproduction of the avian/mammalian invertivore communities.	
	Survival, growth, and reproduction of the avian/mammalian carnivore/piscivore communities.	

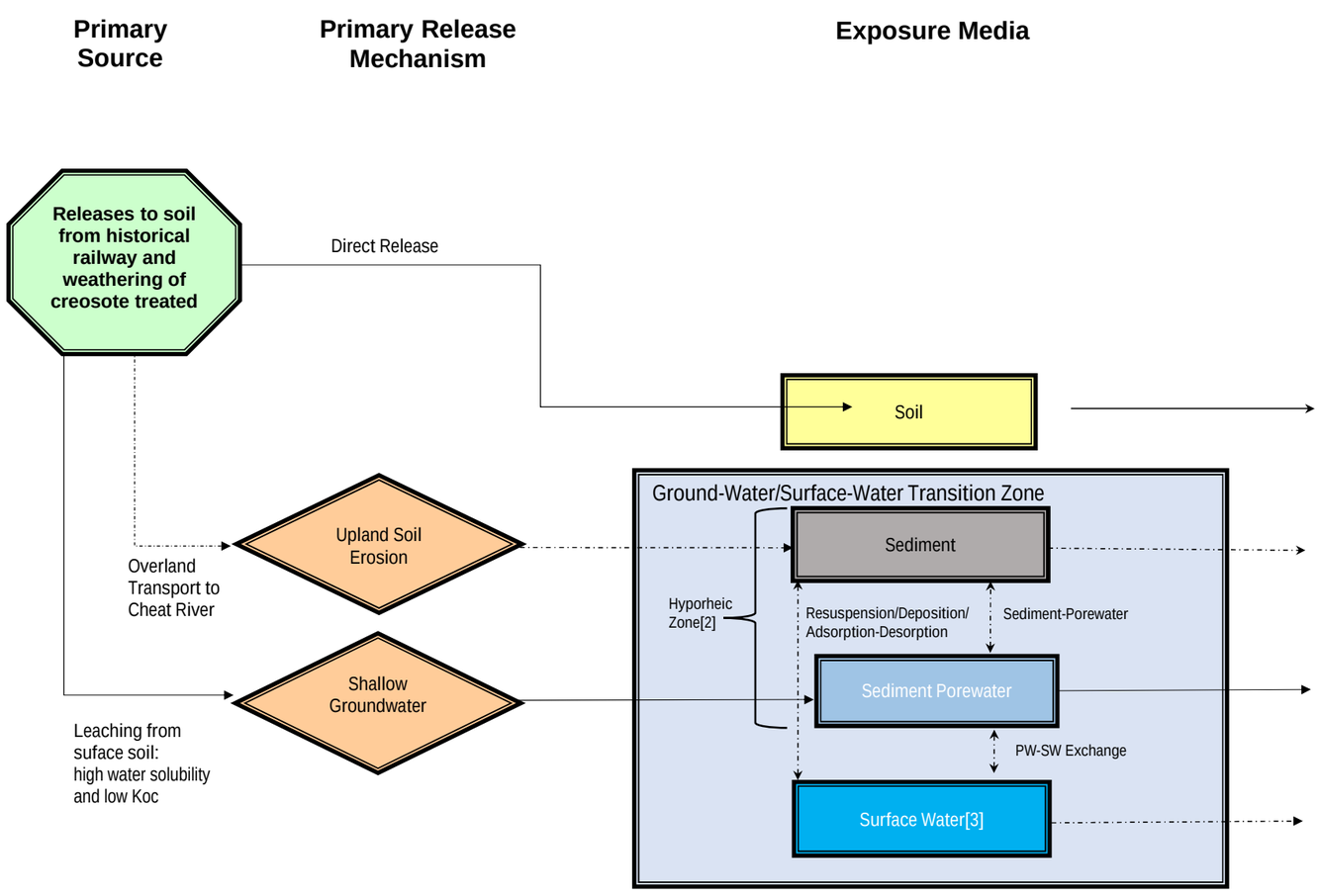


Notes:

1. The site deed restricts property use to recreational only and prevents residential use and potable use of groundwater.
2. The utility line trench is anticipated to extend to 4 ft bgs, therefore incidental ingestion and dermal contact with groundwater are expected to be unlikely for the utility worker.
3. Surface water was assessed using sediment samples collected near the surface water interface.

X = Potentially Complete Exposure Pathway
IC = Incomplete Exposure Pathway
X (TS) = Exposure medium is total soil only

Figure 3-1
Preliminary Conceptual Site Exposure Model
Supplemental Site Assessment Report
Cheat River Rail-Trail Corridor, West Virginia



Exposure Routes / **Potential Ecological Receptors[1]**

Exposure Routes	Soil Macroinvertebrates	Benthic Macroinvertebrates	Avian/Mammalian Carnivores/Piscivores	Avian/Mammalian Invertivore	Avian/Mammalian Herbivore
Direct Contact/Absorption	●	☒	☐	☐	☐
Direct Ingestion	●	☒	☒	☒	☒
Incidental Ingestion	--	☒	●	●	●
Prey and Plant Dietary Items	--	☒	●	●	●

Direct Contact/Absorption	☒	●	☐	☐	☐
Direct Ingestion	☒	●	☒	☒	☒
Incidental Ingestion	--	--	●	●	☐
Prey Items	--	--	●	●	☐

Direct Contact/Absorption	☒	●	☒	☒	☒
Direct Ingestion	☒	●	☒	☒	☒
Incidental Ingestion	--	--	☒	--	☒
Prey Items	--	--	☒	☒	☒

Direct Contact/Absorption	☒	●	☐	☐	☐
Direct Ingestion	☒	●	●	●	☐
Incidental Ingestion	--	--	●	●	☐
Prey Items	--	--	☐	☐	☐

NOTES:
[1] Terrestrial wildlife receptors will be evaluated using exposure via soil and aquatic/semi-aquatic receptors will be evaluated using via sediment and surface water in the ERA Report.
[2] The hyporheic zone is defined as a "latticework of underground habitats through the sediments associated with the interstitial waters in the substrate beneath and adjacent to moving surface-waters" (USEPA, 2008).
[3] Surface water was assessed using sediment samples collected near the surface water interface.

REFERENCES:
USEPA. 2008. ECO Update/Ground Water Forum Issue Paper: Evaluating Ground-Water/Surface-Water Transition Zones in Ecological Risk Assessments. Publication 9285.6-17 EPA-540-R-06-072. July 2008.

LEGEND:

→	CONTAMINANT MIGRATION PATHWAY
⇢	POTENTIAL CONTAMINANT MIGRATION PATHWAY
●	POTENTIAL COMPLETE PRIMARY EXPOSURE PATHWAY
☐	EXPOSURE PATHWAY IS COMPLETE OR POTENTIALLY COMPLETE AND INSIGNIFICANT
--	SIGNIFICANCE OF EXPOSURE PATHWAY IS UNCERTAIN
☒	INCOMPLETE EXPOSURE PATHWAY

Figure 3-2
Preliminary Ecological Conceptual Site Model
Supplemental Site Assessment Report
Cheat River Rail-Trail Corridor, West Virginia

4. Supplemental Site Assessment

4.1 Objectives of the Assessment

The development of project objectives includes the proper planning, evaluation of existing data, and the incorporation of regulatory requirements into the next phase of the project. As required by VRP, a site must be assessed to identify actual or potential contaminants at a site. The Supplemental Site Characterization was performed with the following objectives in mind:

- Identification of Site-related contaminants reasonably expected to be at or near the Site;
- Determination of the presence or absence of those contaminants in a media of concern;
- Identification of the nature and extent of contamination;
- Identification of potential pathways for contaminant migration; and
- Identification of potential receptors of the contamination.

Based on recent and historical investigations of the properties, it is believed that most of the objectives have been met, but additional data was still needed to complete the characterization and requisite 10% USEPA Stage 4 protocols. The following sections describe the data gaps and the information that was required to complete the characterization.

4.1.1 Human Health Assessment Data Gaps

The historical sampling data collected prior to entering the Site into the VRP were focused on surface soils. Sufficient samples were collected to be representative of the COPC within the former rail corridor; however, 10% of the data were not validated to USEPA Stage 4 protocols. Therefore, to allow the data to be used as part of the risk assessment process, additional surface soil samples were collected. In addition to the soil data gap samples, subsurface soil, sediment, and SPLP samples were collected and analyzed to further assess potential pathways and exposure points.

4.1.2 Ecological Screening Evaluation Data Gaps

An initial comparison of maximum detected concentrations of chemicals in soil from the Supplemental Sampling Report (AECOM, 2019) to ecological benchmarks indicated a potential for adverse impacts to ecological receptors. Based on the preliminary ECSM (**Section 3.3**), potential source areas associated with the Site and historical activities exist and have the potential to transport constituents to downgradient aquatic environments. Soil, sediment, and extracted porewater were collected to evaluate potential risks to ecological receptors. Surface water was not collected or evaluated as only intermittently ponded areas are present at the Site in drainage culverts used to divert surface runoff after precipitation events.

Wildlife modeling has not been conducted for this Site to assess the potential for bioaccumulative impacts. Based on the data collected to support this investigation, wildlife receptors (as described within **Section 3.3.1**) will be evaluated using benchmarks protective of wildlife (in addition to direct contact/exposure) during the screening step of the ERA Report. An exceedance of wildlife benchmarks will be used to identify constituents for further evaluation using wildlife dose rate models (DRMs) as outlined within USEPA (1997) and modified according to the SSS models presented within WVDEP (2020). In addition to resources outlined within WVDEP (2020), the following may be used to compile information for the wildlife DRMs and ERA Report:

- The resources listed below are preliminary and other references (as outlined in WVDEP [2020]) may be used depending on the specific constituents and receptors modeled.

- Supporting information from USEPA (1993) and Sample and Suter (1994) will be used to compile exposure assumptions related to wildlife receptors (i.e., dietary components, body weight, and home range).
- Allometric ingestion rate models from Nagy (2001) will be used within the wildlife DRMs.
- Bioaccumulation from soil/sediment into dietary components will be modeled using uptake models described in Bechtel Jacobs (1998a and 1998b), Sample et al. (1998a and 1998b), and USEPA (2007).

Wildlife toxicity reference values will be primarily selected from the Ecological Soil Screening Level (Eco-SSL) documents (USEPA, 2008b). Additional literature or technical guidance, such as Sample et al. (1996) and Los Alamos National Laboratory (LANL) (2017), will be used to supplement the primary sources listed above.

4.2 Sampling and Analysis Plan

The site assessment investigation followed the data requirements and Site investigation techniques that were documented in the Site Characterization Work Plan. Any deviations from the Site Characterization Work Plan are described in the sections below.

The sample IDs, coordinates, sampling depth, analysis, and location rationale are presented in **Table 4-1**. The locations of the samples are shown on **Figures 4-1 through 4-4**.

4.2.1 Soil Sampling

Subsurface and surface soil samples were collected as part of the data required for the risk assessments and the Site Assessment.

Multiple soil cores were required at certain sampling locations for a sample interval to provide a sufficient volume of soil for the laboratory analyses. The surface soil samples were identified using the following alphanumeric sequence: SSS-12(0'-2'). The “SSS-12” represents the soil boring ID while the depth is shown in the numeric range shown in parenthesis. The subsurface soil samples were identified using the following alphanumeric sequence: SSB-12(2'-8'). The “SSB-12” represents the soil boring ID, while the depth is shown in the numeric range shown in parenthesis.

Subsurface and surface soils were logged by the field geologist in accordance with the Unified Soils Classification System (USCS), and observations were recorded in a field book and on soil boring log forms. Soil borings were abandoned following soil sampling according to WV Title 47 Code of State Regulations (CSR) Series 60, Section 19 (Monitoring Well Design Standards; Abandonment). Bentonite chips were placed in each borehole to ground level.

4.2.1.1 Surface Soil Sampling

As discussed in the workplan, additional surface soils were collected and validated to Stage 4 in order to utilize the existing data and meet the data validation requirements of the VRP. An additional seven surface soil samples were collected to meet the 10% data validation criteria.

The surface soil sampling locations were selected to provide data for the northern portion of the site between the last 2011 soil sample (SSIP) and the start of the 2018 samples (SB-1), and at a portion of the previous sampling locations to be used for data validation. Surface soil sampling was completed at locations accessible to recreational users and construction/maintenance workers.

4.2.1.2 Subsurface Soil Sampling

To assess exposure for construction/utility workers, fifteen subsurface soil samples (below 2 ft bgs or where the surface sample ended) were collected based on the following rationale:

- The samples were collected from locations that are near roads and utility crossings where utility or construction work could occur. Locations were chosen along the length of the site to provide representative data that does not favor areas where elevated concentrations were previously detected in surface soil.

The locations of the fifteen subsurface soil samples are shown on **Figures 4-1 through 4-4**. The soil boring logs are provided in **Appendix E**. The site subsurface materials within the rail bed, consisted of approximately 12-inches of crushed limestone ballast material (coarse gravel to fine cobble) underlain by at least nine feet of silty clay. No groundwater or bedrock was encountered in any of the borings. The sample IDs, coordinates, sampling depth, analysis, and location rationale are presented in **Table 4-1**.

4.2.2 Sediment Sampling

As previously mentioned, sediment samples were proposed to be collected from eight culverts along the Site at both upgradient and downgradient locations. However, during Site visits the Site only had enough ponded water locations (within drainage ditches) to support seven sediment samples. Of these seven samples, downgradient samples were not collected at three sample points because no surface water was observed at these locations. Sediment samples were collected to support the evaluation of potential impacts to downgradient aquatic environments and potential worker exposure during utility or maintenance work. No surface water samples were collected. Sediment and extracted porewater were selected to evaluate potential exposure of downstream aquatic environments.

Samples were collected within the biologically active zone, which operationally extends from the surface water interface to a depth of approximately 0.5 ft bgs for freshwater sediment (USEPA, 2015). The sediment samples were identified using the following alphanumeric sequence: SED-1-U(0'-0.5'). The “SED-1-U” represents the boring ID, while the depth is shown in the numeric range shown in parenthesis. Within the boring ID “U” refers to the upgradient culvert location and “D” refers to the downgradient culvert location. Downgradient samples were not taken at SED-4, SED-6, and SED-7 due to no standing water representative of aquatic environment in the downgradient locations.

4.2.3 Surface to Groundwater Migration Sampling

At each upgradient sediment sample, a sample was collected and submitted for SPLP analysis to evaluate the potential for surface to groundwater migration of Site-related COPCs. SPLP analysis was also performed at selected surface soil locations. In addition to addressing the utility and construction worker exposure (i.e., groundwater within trench), these samples allow a more direct exposure point to evaluate benthic invertebrates within the HZ.

SPLP sediment samples were identified using the following alphanumeric sequence: SPLP-2(0’-0.5’). The “SPLP” identifies the sample source. The number (i.e.”2”) refers to the co-located, upgradient sediment sample ID while the depth is shown in the numeric range shown in parenthesis.

4.2.4 Field Quality Assurance/Quality Control Samples

Quality Assurance/Quality Control (QA/QC) samples were acquired per the procedures described in the Site Characterization Work Plan. The QA/QC samples for the event are described in **Section 4.5**.

4.2.5 Sample Preparation, Packaging, and Chain of Custody Procedures

The samples were prepared and packaged per the procedures described in the Site Characterization Work Plan. Further detail can be found in the data validation report and analytical data package (**Appendices C and D**).

4.2.6 Sample Preservation, Storage, and Holding Times

Samples were preserved and stored per the procedures described in the Site Characterization Work Plan. Further detail can be found in the data validation report and analytical data package (**Appendices C and D**).

4.2.7 Laboratory and Analytical Methods

Pace Analytical Laboratories of Beaver, WV provided analytical services for the Supplemental Site Assessment for all samples, except SPLP, which were analyzed at Pace Analytical Laboratories of Pittsburgh, Pennsylvania (PA).

Based on the identified historical use of the site as a railroad, surface and subsurface soil, sediment, and SPLP samples were analyzed by USEPA approved methods for the following target analyte groups:

- PAHs (USEPA Method 8270C)
- Naphthalene only (USEPA Method 8260B)
- Arsenic and Lead (USEPA Method 6010/7470)

4.2.8 Decontamination Procedures

Decontamination of equipment and tools is necessary and important for the accurate analysis of samples that represent the conditions at the locations from which they are collected. Proper decontamination also ensures that constituents are not dispersing beyond the source area. The sampling field team ensured boots were decontaminated and wore new nitrile gloves for collection of each sample. For soil, sediment, and surface water sampling, reusable equipment was decontaminated with an Alconox detergent and water solution and dried with paper towels. Reusable equipment was decontaminated before use, between each sample, and at the end of the field event.

4.3 Management of Program-Derived Waste

Waste materials that were generated through the completion of the investigative activities were segregated based on type of waste and managed accordingly. The waste materials that were generated from the investigations were Geoprobe® boring sleeves which were disposed of in an offsite dumpster. No excess soils were produced during the sampling.

4.4 Health, Safety, and Security

All work conducted for this investigation was performed in accordance with the Health and Safety Plan (HASP) developed for the site and applicable AECOM Safety Management Standards. All on-site personnel were trained in accordance with 20 Code of Federal Regulations (CFR) 1910.120 requirements for hazardous waste site operations and attended a pre-work safety briefing. Drilling, sampling, and other field activities were conducted in Level D personal protective equipment (PPE). PPE used included at a minimum, safety glasses or goggles, hard hat (if overhead hazards are present such as drilling with mast raised), steel-toed boots, and hearing protection (as required). PPE was upgraded as necessary in accordance with the HASP guidelines.

Subcontractor personnel had 40 hour Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) certification with current refresher training. All HAZWOPER and other required certificates for subcontractors and AECOM personnel were kept in the project file at the AECOM office in Kenova, WV. A courtesy copy of the HASP was provided to the subcontractors prior to the start of activities.

4.5 Quality Assurance

QA/QC samples collected during the field investigations included the following:

- Matrix Spike/Matrix Spike Duplicates (MS/MSD);
- Equipment blanks;
- Trip blanks; and
- Duplicate samples.

4.5.1 Field Instrument/Equipment Calibration and Frequency

With the exception of a Stonex s800 Global Positioning System (GPS) unit to record the sample locations, no instruments were used in the field. The GPS unit did not require any calibration in the field.

4.5.2 Non-direct Measurements

Field observations, such as odor, were recorded in the field logbook. Observations made by laboratory personnel may be recorded on the chain of custody (CoC) form or documented in the case narrative.

4.5.3 Special Training/Certification

Field sampling teams were trained in soil, sediment, and SPLP sampling methodologies, have completed the OSHA 40-hour HAZWOPER course with current 8-hour refresher training, and comply with the health and safety training requirements of AECOM. Additional health and safety information appears in the site-specific HASP.

4.5.4 Data Generation and Acquisition

Sample handling/custody and subsequent data management were performed per the procedures described in the Site Characterization Work Plan. Further detail can be found in the final data validation report and analytical data package (**Appendices C and D**). Sampling methods are summarized in **Section 4.2**.

4.5.5 Data Validation and Usability

Validation of objective field and technical data was performed at two different levels – Field and Technical Data Validation and Laboratory Data Review. The Data Quality Objectives (DQOs) discussed in the Site Characterization Work Plan were achieved. The data validation report and analytical data package are included in **Appendices C and D**. Per the data usability assessment all collected data are useable for their intended purpose.

If the laboratory reporting limit (RL) was elevated due to dilution, then the intended RL (prior to the sample being diluted) was shown in the table and will be used as a screening concentration in the HHRA's data sensitivity analysis.

4.6 Supplemental Site Assessment Results

The results of the Supplemental Site Assessment activities conducted under VRP are discussed in the following sections. Comparisons provided in this section are for general information purposes. A more complete evaluation of the data will be performed in the risk assessments which will include screening of both surface soil and total soil (surface and subsurface) for evaluation of future scenarios. Additional media may be eliminated from consideration in the quantitative risk assessment process.

4.6.1 Surface Soil Sampling Results

A total of fifteen surface soil samples were collected at locations accessible to recreational users and construction/maintenance workers. The surface soil sample results were screened against the SSS Recreational User Screening Levels, which were generated from the USEPA's RSL Calculator (**Appendix B**).

The analytical results are summarized in **Table 4-2**. There were three detections of arsenic that exceeded the Recreational User Screening Level for arsenic (16.9 milligrams per kilogram [mg/kg]) at concentrations ranging from 30.65 to 78.4 mg/kg. All other analytes tested were non-detect or below the Recreational User Screening Level. The surface soil sample results for arsenic were also compared to the background standard for metals for the WVDEP De Minimis Standard. For arsenic, the background value of 13.1 mg/kg was less than the SSS Recreational User Screening Level (16.9 mg/kg) so the three exceedances listed in the previous paragraph still applied. The background value for arsenic was the 90th percentile natural background values from the Table 3-3 of the WV VRP Guidance (WVDEP, 2020).

A SSS Recreational User Screening Level could not be generated for lead. The highest lead detection was at SSS-07 at 47.3 mg/kg, which did not exceed the De Minimis screening level of 400 mg/kg for Residential Soils (WVDEP, 2020).

4.6.2 Subsurface Soil Sampling Results

A total of fifteen subsurface soil samples were collected at locations accessible to assess potential exposure of construction/maintenance workers to subsurface soils. The subsurface soil sample results were screened against the Industrial WVDEP De Minimis Screening Criteria (WVDEP, 2020). The analytical results are summarized in **Table 4-3**. There were no detections noted in excess of the Industrial Screening Criteria.

4.6.3 Sediment Sampling Results

A total of twelve sediment samples were collected at locations accessible to recreational users and construction/maintenance workers. The sediment soil sample results were screened against the Site-Specific Standard Recreational User Screening Levels and will be used for ecological risk evaluation. The analytical results are summarized in **Table 4-4**. None of the analytes in the sediment samples were detected above the SSS Recreational Screening Level with the exception of SED-3-U where arsenic was detected at 23.9 mg/kg, which exceeded the SSS Recreational User Screening Level of 16.9 mg/kg.

4.6.4 Surface to Groundwater Migration Sampling Results

A total of twelve surface soil and sediment samples were collected for SPLP analysis to assess the potential for site contaminants to impact groundwater. The SPLP leachate results were screened against Groundwater WVDEP De Minimis standards multiplied by a site-specific Dilution-Attenuation Factor (DAF) of 20. The DAF of 20 was applied to account for dilution which would occur if/when the leachate reaches groundwater. The DAF value was calculated using a spreadsheet developed by New Jersey Department of Environmental Protection

(NJDEP, 2013) and recommended for use by WVDEP. The analytical results are summarized in **Table 4-5**. Details of the derivation of the DAF are provided in **Appendix F**.

No detected concentrations exceeded the DAF-adjusted groundwater standards. Naphthalene (volatile organic compound [VOC]) and dibenz(a,h)anthracene were not detected in any of the SPLP samples, however the detection limits for these two analytes exceeded the DAF-adjusted groundwater standards. The fact that neither of these analytes were detected and that there were no other exceedances of the DAF-adjusted standards indicates that there is likely to be no impact to groundwater from the soil at the Site and that groundwater can be eliminated as a media of concern. This is further supported by the very conservative nature of the DAF used in this analysis. Exceedance of the DAF-adjusted standard by the detection limits for these analytes will be discussed in the HHRA as part of the uncertainty assessment.

Page Intentionally Left Blank

Table 4-1
Prposaed Sample Location Information
Cheat River Trail - Preston County, West Virginia

Location ID	Sample ID	Matrix	Coordinates		Closest Station	Depth (ft)	Analysis	Grab or Composite	Location Rationale	CSM Potential Receptor Exposed							
										Ecological				Human Health			
			Latitude	Longitude						Soil Invert.	Terr. Wildlife	Benthic Invert.	Aqua. Wildlife	REC	OW	CW	UW
SSS-1	SSS-1(0'-2')	Surface Soil	39°21'19.71"N	79°41'15.86"W	None	0-2	As, Pb, PAHs	Grab	West of Manhiem and south of the site	●	●			●	●	●	●
SSB-1	SSB-1(2'-8')	Subsurface Soil	39°21'19.71"N	79°41'15.86"W	None	2-8	As, Pb, PAHs	Grab	West of Manhiem and south of the site							●	●
SSS-2	SSS-2(0'-2')	Surface Soil	39°22'15.97"N	79°41'54.28"W	165	0-2	As, Pb, PAHs, SPLP	Grab	By culvert C002	●	●			●	●	●	●
SSB-2	SSB-2(2'-8')	Subsurface Soil	39°22'15.97"N	79°41'54.28"W	165	2-8	As, Pb, PAHs	Grab	By culvert C002							●	●
SSS-3	SSS-3(0'-2')	Surface Soil	39°22'45.58"N	79°42'17.96"W	200	0-2	As, Pb, PAHs	Grab	By culvert C008	●	●			●	●	●	●
SSB-3	SSB-3(2'-8')	Subsurface Soil	39°22'45.58"N	79°42'17.96"W	200	2-8	As, Pb, PAHs	Grab	By culvert C008							●	●
SSS-4	SSS-4(0'-2')	Surface Soil	39°23'20.30"N	79°41'59.85"W	245	0-2	As, Pb, PAHs	Grab	By culvert C014	●	●			●	●	●	●
SSB-4	SSB-4(2'-8')	Subsurface Soil	39°23'20.30"N	79°41'59.85"W	245	2-8	As, Pb, PAHs	Grab	By culvert C014							●	●
SSS-5	SSS-5(0'-2')	Surface Soil	39°23'50.10"N	79°41'39.23"W	290	0-2	As, Pb, PAHs, SPLP	Grab	By Bear Wallow Run and Bridge #42A	●	●			●	●	●	●
SSB-5	SSB-5(2'-8')	Subsurface Soil	39°23'50.10"N	79°41'39.23"W	290	2-8	As, Pb, PAHs	Grab	By Bear Wallow Run and Bridge #42A							●	●
SSS-6	SSS-6(0'-2')	Surface Soil	39°24'9.27"N	79°40'46.08"W	340	0-2	As, Pb, PAHs	Grab	By unnamed stream and Bridge #41B	●	●			●	●	●	●
SSB-6	SSB-6(2'-8')	Subsurface Soil	39°24'9.27"N	79°40'46.08"W	340	2-8	As, Pb, PAHs	Grab	By unnamed stream and Bridge #41B							●	●
SSS-7	SSS-7(0'-2')	Surface Soil	39°24'32.98"N	79°41'4.65"W	370	0-2	As, Pb, PAHs	Grab	By culvert C034	●	●			●	●	●	●
SSB-7	SSB-7(2'-8')	Subsurface Soil	39°24'32.98"N	79°41'4.65"W	370	2-8	As, Pb, PAHs	Grab	By culvert C034							●	●
SSS-8	SSS-8(0'-2')	Surface Soil	39°25'1.53"N	79°41'10.79"W	400	0-2	As, Pb, PAHs, SPLP	Grab	By culvert C040	●	●			●	●	●	●
SSB-8	SSB-8(2'-8')	Subsurface Soil	39°25'1.53"N	79°41'10.79"W	400	2-8	As, Pb, PAHs	Grab	By culvert C040							●	●
SSS-9	SSS-9(0'-2')	Surface Soil	39°25'29.01"N	79°41'8.09"W	430	0-2	As, Pb, PAHs	Grab	By Whetsell Run and bridge #39C	●	●			●	●	●	●
SSB-9	SSB-9(2'-8')	Subsurface Soil	39°25'29.01"N	79°41'8.09"W	430	2-8	As, Pb, PAHs	Grab	By Whetsell Run and bridge #39C							●	●
SSS-10	SSS-10(0'-2')	Surface Soil	39°26'1.88"N	79°41'4.11"W	465	0-2	As, Pb, PAHs, SPLP	Grab	By highest As detection	●	●			●	●	●	●
SSB-10	SSB-10(2'-8')	Subsurface Soil	39°26'1.88"N	79°41'4.11"W	465	2-8	As, Pb, PAHs	Grab	By highest As detection							●	●
SSS-11	SSS-11(0'-2')	Surface Soil	39°26'31.63"N	79°40'56.96"W	495	0-2	As, Pb, PAHs	Grab	By culvert C05	●	●			●	●	●	●
SSB-11	SSB-11(2'-8')	Subsurface Soil	39°26'31.63"N	79°40'56.96"W	495	2-8	As, Pb, PAHs	Grab	By culvert C05							●	●
SSS-12	SSS-12(0'-2')	Surface Soil	39°27'0.11"N	79°40'33.29"W	530	0-2	As, Pb, PAHs, SPLP	Grab	By culvert C056	●	●			●	●	●	●
SSB-12	SSB-12(2'-8')	Subsurface Soil	39°27'0.11"N	79°40'33.29"W	530	2-8	As, Pb, PAHs	Grab	By culvert C056							●	●
SSS-13	SSS-13(0'-2')	Surface Soil	39°27'11.68"N	79°40'21.86"W	545	0-2	As, Pb, PAHs	Grab	By culvert C058	●	●			●	●	●	●
SSB-13	SSB-13(2'-8')	Subsurface Soil	39°27'11.68"N	79°40'21.86"W	545	2-8	As, Pb, PAHs	Grab	By culvert C058							●	●
SSS-14	SSS-14(0'-2')	Surface Soil	39°27'20.65"N	79°40'13.18"W	555	0-2	As, Pb, PAHs	Grab	By culvert C060	●	●			●	●	●	●
SSB-14	SSB-14(2'-8')	Subsurface Soil	39°27'20.65"N	79°40'13.18"W	555	2-8	As, Pb, PAHs	Grab	By culvert C060							●	●
SSS-15	SSS-15(0'-2')	Surface Soil	39°27'30.12"N	79°39'53.81"W	575	0-2	As, Pb, PAHs	Grab	By culvert C064	●	●			●	●	●	●
SSB-15	SSB-15(2'-8')	Subsurface Soil	39°27'30.12"N	79°39'53.81"W	575	2-8	As, Pb, PAHs	Grab	By culvert C064							●	●
SED-1-U	SED-1-U(0'-0.5')	Sediment	39° 27' 16.88N	79° 40' 16.89"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-1-D	SED-1-D(0'-0.5')	Sediment	39° 27' 16.88"	79° 40' 16.89"		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-2-U	SED-2-U(0'-0.5')	Sediment	39° 26' 54.6"N	79° 40' 37.2"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-2-D	SED-2-D(0'-0.5')	Sediment	39° 26' 54.6"	79° 40' 37.2"		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-3-U	SED-3-U(0'-0.5')	Sediment	39° 26' 58.74"N	79° 40' 34.5"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-3-D	SED-3-D(0'-0.5')	Sediment	39° 26' 58.74"	79° 40' 34.5"		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-4-U	SED-4-U(0'-0.5')	Sediment	39° 26' 45.74"N	79° 40' 41.74"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-4-D	SED-4-D(0'-0.5')	Sediment	NS	NS		0-0.5	As, Pb, PAHs	Grab	NS			●	●	●	●	●	●
SED-5-U	SED-5-U(0'-0.5')	Sediment	39° 23' 58.416"N	79° 40' 51.07"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-5-D	SED-5-D(0'-0.5')	Sediment	39° 23' 58.416"N	79° 40' 51.07"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-6-U	SED-6-U(0'-0.5')	Sediment	39° 24' 26.55"N	79° 40' 54.97"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-6-D	SED-6-D(0'-0.5')	Sediment	NS	NS		0-0.5	As, Pb, PAHs	Grab	NS			●	●	●	●	●	●
SED-7-U	SED-7-U(0'-0.5')	Sediment	39° 25' 40.026"N	79° 41' 4.82"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●	●	●	●	●
SED-7-D	SED-7-D(0'-0.5')	Sediment	NS	NS		0-0.5	As, Pb, PAHs	Grab	NS			●	●	●	●	●	●
SED-8-U	SED-8-U(0'-0.5')	Sediment	NS	NS		0-0.5	As, Pb, PAHs	Grab	NS			●	●	●	●	●	●
SED-8-D	SED-8-D(0'-0.5')	Sediment	NS	NS		0-0.5	As, Pb, PAHs	Grab	NS			●	●	●	●	●	●

Table 4-1
Prposaed Sample Location Information
Cheat River Trail - Preston County, West Virginia

Location ID	Sample ID	Matrix	Coordinates		Closest Station	Depth (ft)	Analysis	Grab or Composite	Location Rationale	CSM Potential Receptor Exposed							
										Ecological				Human Health			
			Latitude	Longitude						Soil Invert.	Terr. Wildlife	Benthic Invert.	Aqua. Wildlife	REC	OW	CW	UW
SPLP-1	SPLP-1(0'-0.5')	Sediment/Water	39° 27' 16.88"N	79° 40' 16.89"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●			●	●
SPLP-2	SPLP-2(0'-0.5')	Sediment/Water	39° 26' 54.6"N	79° 40' 37.2"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●			●	●
SPLP-3	SPLP-3(0'-0.5')	Sediment/Water	39° 26' 58.74"N	79° 40' 34.5"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●			●	●
SPLP-4	SPLP-4(0'-0.5')	Sediment/Water	39° 26' 45.74"N	79° 40' 41.74"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●			●	●
SPLP-5	SPLP-5(0'-0.5')	Sediment/Water	39° 23' 58.416"N	79° 40' 51.07"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●			●	●
SPLP-6	SPLP-6(0'-0.5')	Sediment/Water	39° 24' 26.55"N	79° 40' 54.97"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●			●	●
SPLP-7	SPLP-7(0'-0.5')	Sediment/Water	39° 25' 40.026"N	79° 41' 4.82"W		0-0.5	As, Pb, PAHs	Grab	Drainage ditch/ lentic habitat			●	●			●	●
SPLP-8	SPLP-8(0'-0.5')	Sediment/Water	NS	NS		0-0.5	As, Pb, PAHs	Grab	NS			●	●			●	●

Notes:

Aqua. = Aquatic
As = Arsenic
CW = Construction Worker
ft = feet
Invert. = Invertebrate
OW = Outdoor Worker
N/A = Not Applicable
PAH = Polycyclic Aromatic Hydrocarbon
Pb = Lead
REC = Recreator
SPLP = Synthetic Precipitation Leachate Procedure
UW = Utility Worker
NS = Not Sampled

Table 4-2
2021 Surface Soil (SSS) Analytical Results
Cheat River Trail - Preston County, West Virginia

			Sample Location:	SSS-01		SSS-02		SSS-03		SSS-04		SSS-05		SSS-06		SSS-07		SSS-08		SSS-9	
			Sample Name:	SSS-01 (0'-2')		SSS-02(0'-2')		SSS-03(0'-2')		SSS-04(0'-2')		SSS-05(0'-2')		SSS-06 (0'-2')		SSS-07 (0'-2')		SSS-08 (0'-2')		SSS-9 (0-2)_COMB	
			Sample Date:	2/12/2021		2/10/2021		2/10/2021		2/10/2021		2/10/2021		2/11/2021		2/11/2021		2/11/2021		2/9/2021	
Chemical	CASRN	RES WV De Minimus SL (mg/kg) (1)	SSS REC SL (mg/kg)	Units	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Volatile Organic Compounds (VOCs)																						
Naphthalene	91-20-3	4.1	50.3	mg/kg	ND(<0.0057)	U	--	--	ND(<0.0054)	U	ND(<0.0044)	U	--	--	ND(<0.0052)	U	ND(<0.0094)	U	--	--	ND(<0.0069)	U
Semi-Volatile Organic Compounds (SVOCs)																						
Acenaphthene	83-32-9	4100	89700	mg/kg	ND(<0.0083)	U	--	--	0.0385		ND(<0.0076)	U	--	--	0.0128		0.0318		--	--	ND(<0.0085)	U
Acenaphthylene	208-96-8	4200	89700	mg/kg	ND(<0.0083)	U	--	--	0.101		ND(<0.0076)	U	--	--	0.0247		0.0727		--	--	0.0408	
Anthracene	120-12-7	23000	448000	mg/kg	ND(<0.0083)	U	--	--	0.102		ND(<0.0076)	U	--	--	ND(<0.0073)	U	0.117		--	--	ND(<0.0085)	U
Benzo(a)anthracene	56-55-3	0.21	28.3	mg/kg	ND(<0.0083)	U	--	--	0.123		ND(<0.0076)	U	--	--	0.0486		0.29		--	--	0.0398	
Benzo(a)pyrene	50-32-8	0.016	2.87	mg/kg	ND(<0.0083)	U	--	--	0.139		ND(<0.0076)	U	--	--	0.0434		0.727		--	--	0.031	
Benzo(b)fluoranthene	205-99-2	0.16	28.7	mg/kg	0.0105		--	--	0.323		0.0139		--	--	0.0904		1.53		--	--	0.0436	
Benzo(g,h,i)perylene	191-24-2	1800	44800	mg/kg	ND(<0.0083)	U	--	--	0.213		ND(<0.0076)	U	--	--	0.0273		0.586		--	--	0.0192	
Benzo(k)fluoranthene	207-08-9	1.6	287	mg/kg	0.0094		--	--	0.114		0.0132		--	--	0.0196		0.511		--	--	0.0426	
Chrysene	218-01-9	16	2870	mg/kg	0.0084		--	--	0.277		0.0191		--	--	0.127		0.567		--	--	0.06775	
Dibenz(a,h)anthracene	53-70-3	0.016	2.87	mg/kg	ND(<0.0083)	U	--	--	0.0492		ND(<0.0076)	U	--	--	0.0157		0.202		--	--	0.0098	
Fluoranthene	206-44-0	2400	59800	mg/kg	ND(<0.0083)	U	--	--	0.246		0.0141		--	--	0.0805		0.354		--	--	0.04605	
Fluorene	86-73-7	2900	59800	mg/kg	ND(<0.0083)	U	--	--	0.0504		ND(<0.0076)	U	--	--	0.0217		0.0337		--	--	ND(<0.0085)	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	28.7	mg/kg	ND(<0.0083)	U	--	--	0.111		ND(<0.0076)	U	--	--	0.0185		0.528		--	--	0.0101	
Naphthalene	91-20-3	4.1	50.3	mg/kg	0.0121		--	--	0.779		0.0183		--	--	0.0551		0.442		--	--	0.1735	
Phenanthrene	85-01-8	23000	448000	mg/kg	0.0211		--	--	0.734		0.0557		--	--	0.315		0.469		--	--	0.19125	
Pyrene	129-00-0	2300	44800	mg/kg	ND(<0.0083)	U	--	--	0.225		0.0135		--	--	0.0844		0.437		--	--	0.0749	
Metals																						
Arsenic	7440-38-2	0.43	16.9	mg/kg	4.6		--	--	78.4		4.5		--	--	5.3		33.8		--	--	30.65	
Lead	7439-92-1	400	No SL	mg/kg	12.1		--	--	18.7		9.6		--	--	20.9		47.3		--	--	24.45	
General Chemistry																						
Percent Moisture	--	No SL	No SL	%	20.3		11.6		16.1		13.6		13.5		10.8		21.8		10.7		25.15	

Notes:

(1) RES WV De Minimus SL: WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil (June 2020)

(2) Site-Specific Standard Recreator Screening Levels (SSS REC) were generated using USEPA Regional Screening Level (RSL) Calculator (see Appendix B). Exceedances were shaded.

CASRN = Chemical Abstract Services Registry Number

mg/kg = milligrams per kilogram; SL = screening level

U = Data qualifier code indicating that analyte was undetected at the detection limit.

Table 4-2
2021 Surface Soil (SSS) Analytical Results
Cheat River Trail - Preston County, West Virginia

			Sample Location:		SSS-10		SSS-11		SSS-12		SSS-13		SSS-14		SSS-15	
			Sample Name:		SSS-10 (0'-2')		SSS-11(0'-2')		SSS-12(0'-2')		SSS-13(0'-2')		SSS-14(0'-2')		SSS-15(0'-2')	
			Sample Date:		2/9/2021		2/8/2021		2/8/2021		2/8/2021		2/8/2021		2/8/2021	
Chemical	CASRN	RES WV De Minimus SL (mg/kg) (1)	SSS REC SL (mg/kg)	Units	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Volatile Organic Compounds (VOCs)																
Naphthalene	91-20-3	4.1	50.3	mg/kg	ND(<0.006)	U	ND(<0.0055)	U	ND(<0.0046)	U	ND(<0.0058)	U	0.0149		ND(<0.0094)	U
Semi-Volatile Organic Compounds (SVOCs)																
Acenaphthene	83-32-9	4100	89700	mg/kg	0.0647		0.0436		0.0467		0.164		ND(<0.0074)	U	0.084	
Acenaphthylene	208-96-8	4200	89700	mg/kg	0.0748		0.0201		ND(<0.0079)	U	ND(<0.0092)	U	ND(<0.0074)	U	0.716	
Anthracene	120-12-7	23000	448000	mg/kg	0.16		ND(<0.0084)	U	0.0114		0.0372		ND(<0.0074)	U	0.401	
Benzo(a)anthracene	56-55-3	0.21	28.3	mg/kg	0.219		0.0898		0.0124		0.0266		0.0169		2.14	
Benzo(a)pyrene	50-32-8	0.016	2.87	mg/kg	0.55		0.0725		ND(<0.0079)	U	ND(<0.0092)	U	0.0156		1.95	
Benzo(b)fluoranthene	205-99-2	0.16	28.7	mg/kg	1.34		0.204		0.0088		0.0173		0.0361		4	
Benzo(g,h,i)perylene	191-24-2	1800	44800	mg/kg	0.29		0.0261		ND(<0.0079)	U	ND(<0.0092)	U	0.0087		0.482	
Benzo(k)fluoranthene	207-08-9	1.6	287	mg/kg	1.31		0.157		ND(<0.0079)	U	ND(<0.0092)	U	0.0074		1.33	
Chrysene	218-01-9	16	2870	mg/kg	0.312		0.19		ND(<0.0079)	U	0.0215		0.0352		2.44	
Dibenz(a,h)anthracene	53-70-3	0.016	2.87	mg/kg	0.105		0.0161		ND(<0.0079)	U	ND(<0.0092)	U	ND(<0.0074)	U	0.29	
Fluoranthene	206-44-0	2400	59800	mg/kg	0.45		0.173		0.0736		0.164		0.0404		4.19	
Fluorene	86-73-7	2900	59800	mg/kg	0.049		0.0509		0.0397		0.153		ND(<0.0074)	U	0.0826	
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	28.7	mg/kg	0.304		0.0215		ND(<0.0079)	U	ND(<0.0092)	U	ND(<0.0074)	U	0.55	
Naphthalene	91-20-3	4.1	50.3	mg/kg	0.116		0.264		0.0348		0.0613		0.0082		0.751	
Phenanthrene	85-01-8	23000	448000	mg/kg	0.276		0.64		0.142		0.42		0.0772		1.72	
Pyrene	129-00-0	2300	44800	mg/kg	0.368		0.149		0.0499		0.11		0.0342		3.56	
Metals																
Arsenic	7440-38-2	0.43	16.9	mg/kg	6.3		7.1		8.4		6.3		8.2		10.2	
Lead	7439-92-1	400	No SL	mg/kg	12.5		19.9		9.4		16		15.2		23.4	
General Chemistry																
Percent Moisture	--	No SL	No SL	%	18.2		20.9		15.4		27.6		10.8		12.6	

Notes:

(1) RES WV De Minimus SL: WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil (June 2020)

(2) Site-Specific Standard Recreator Screening Levels (SSS REC) were generated using USEPA Regional Screening Level (RSL) Calculator (see Appendix B). Exceedances were shaded.

CASRN = Chemical Abstract Services Registry Number

mg/kg = milligrams per kilogram; SL = screening level

U = Data qualifier code indicating that analyte was undetected at the detection limit.

Table 4-3
2021 Subsurface Soil (SSB) Analytical Results
Cheat River Trail - Preston County, West Virginia

			Sample Location:	SSB-01		SSB-02		SSB-03		SSB-04		SSB-05		SSB-06		SSB-07		SSB-08		SSB-9	
			Sample Name:	SSB-01 (2'-8')_COMB		SSB-02(2'-8')		SSB-03(2'-8')_COMB		SSB-04(2'-8')		SSB-05(2'-8')		SSB-06 (2'-8')		SSB-07 (2'-8')_COMB		SSB-08 (2'-8')		SSB-9 (2-8)	
			Sample Date:	2/12/2021		2/10/2021		2/10/2021		2/10/2021		2/10/2021		2/11/2021		2/11/2021		2/11/2021		2/9/2021	
Chemical	CASRN	RES WV De Minimus SL (mg/kg) (1)	IND WV De Minimus SL (mg/kg) (2)	Units	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Volatile Organic Compounds (VOCs)																					
Naphthalene	91-20-3	4.1	180	mg/kg	ND(<0.0052)	U	ND(<0.0046)	U	ND(<0.0044)	U	ND(<0.0051)	U	ND(<0.0042)	U	0.0057		ND(<0.0048)	U	ND(<0.0049)	U	ND(<0.0039)	U
Semi-Volatile Organic Compounds (SVOCs)																					
Acenaphthene	83-32-9	4100	70000	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.0673		ND(<0.0077)	U	0.0255		ND(<0.0074)	U	0.0437		ND(<0.0075)	U
Acenaphthylene	208-96-8	4200	80000	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	ND(<0.0076)	U	ND(<0.0077)	U	0.0243		ND(<0.0074)	U	ND(<0.0076)	U	ND(<0.0075)	U
Anthracene	120-12-7	23000	700000	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	ND(<0.0076)	U	ND(<0.0077)	U	0.0325		ND(<0.0074)	U	0.029		ND(<0.0075)	U
Benzo(a)anthracene	56-55-3	0.21	88	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.151		ND(<0.0077)	U	0.071		ND(<0.0074)	U	0.0379		ND(<0.0075)	U
Benzo(a)pyrene	50-32-8	0.016	4.3	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.127		ND(<0.0077)	U	0.0839		ND(<0.0074)	U	0.0123		ND(<0.0075)	U
Benzo(b)fluoranthene	205-99-2	0.16	43	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.246		0.0088		0.185		ND(<0.0074)	U	0.0231		0.0326	
Benzo(g,h,i)perylene	191-24-2	1800	33000	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.0462		ND(<0.0077)	U	0.0571		ND(<0.0074)	U	ND(<0.0076)	U	ND(<0.0075)	U
Benzo(k)fluoranthene	207-08-9	1.6	430	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.234		0.0083		0.0741		ND(<0.0074)	U	0.0082		0.0319	
Chrysene	218-01-9	16	4300	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.448		0.0202		0.104		0.0123		0.0305		0.0564	
Dibenz(a,h)anthracene	53-70-3	0.016	4.3	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.0413		ND(<0.0077)	U	0.018		ND(<0.0074)	U	ND(<0.0076)	U	ND(<0.0075)	U
Fluoranthene	206-44-0	2400	44000	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	0.0197		0.268		ND(<0.0077)	U	0.141		ND(<0.0074)	U	0.221		0.0197	
Fluorene	86-73-7	2900	62000	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.144		ND(<0.0077)	U	0.0209		ND(<0.0074)	U	0.0581		ND(<0.0075)	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	43	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.0237		ND(<0.0077)	U	0.0497		ND(<0.0074)	U	ND(<0.0076)	U	ND(<0.0075)	U
Naphthalene	91-20-3	4.1	180	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	ND(<0.008)	U	0.345		ND(<0.0077)	U	0.0492		ND(<0.0074)	U	0.0283		0.0088	
Phenanthrene	85-01-8	23000	700000	mg/kg	0.0091		0.0132		0.0233		1.58		0.0631		0.0933		0.03945		0.296		0.148	
Pyrene	129-00-0	2300	66000	mg/kg	ND(<0.0078)	U	ND(<0.0079)	U	0.0135		0.263		ND(<0.0077)	U	0.136		ND(<0.0074)	U	0.153		0.0185	
Metals																					
Arsenic	7440-38-2	0.43	35	mg/kg	14.65		11.3		9.9		30.1		11.8		2.8		8.15		9.5		11.8	
Lead	7439-92-1	400	1000	mg/kg	14.55		20.2		11.15		23.3		11.5		4.4		16.1		15.6		13.3	
General Chemistry																					
Percent Moisture	--	No SL	No SL	%	15.6		15.9		17.1		12.5		12.6		7.9		13		12.6		11.6	

Notes:

(1) RES WV De Minimus SL: WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil (June 2020)

(2) IND WV De Minimus SL: WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Industrial Soil (June 2020). Exceedances were shaded.

CASRN = Chemical Abstract Services Registry Number

mg/kg = milligrams per kilogram; SL = screening level

U = Data qualifier code indicating that analyte was undetected at the detection limit.

Table 4-3
2021 Subsurface Soil (SSB) Analytical Results
Cheat River Trail - Preston County, West Virginia

			Sample Location:	SSB-10		SSB-11		SSB-12		SSB-13		SSB-14		SSB-15	
			Sample Name:	SSB-10 (2'-8')		SSB-11(2'-8')		SSB-12(2'-8')		SSB-13(2'-8')		SSB-14(2'-8')_COMB		SSB-15(2'-8')	
			Sample Date:	2/9/2021		2/8/2021		2/8/2021		2/8/2021		2/8/2021		2/8/2021	
Chemical	CASRN	RES WV De Minimus SL (mg/kg) (1)	IND WV De Minimus SL (mg/kg) (2)	Units	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Volatile Organic Compounds (VOCs)																
Naphthalene	91-20-3	4.1	180	mg/kg	ND(<0.0049)	U	ND(<0.009)	U	ND(<0.0064)	U	ND(<0.0062)	U	ND(<0.0054)	U	ND(<0.0105)	U
Semi-Volatile Organic Compounds (SVOCs)																
Acenaphthene	83-32-9	4100	70000	mg/kg	ND(<0.0079)	U	0.0144		0.836		ND(<0.0085)	U	0.02365		0.215	
Acenaphthylene	208-96-8	4200	80000	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	0.77		ND(<0.0085)	U	0.03595		0.245	
Anthracene	120-12-7	23000	700000	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	0.967		ND(<0.0085)	U	0.04615		0.305	
Benzo(a)anthracene	56-55-3	0.21	88	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	2.01		ND(<0.0085)	U	0.1445		1.17	
Benzo(a)pyrene	50-32-8	0.016	4.3	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	1.8		ND(<0.0085)	U	0.147		1.25	
Benzo(b)fluoranthene	205-99-2	0.16	43	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	4.58		ND(<0.0085)	U	0.337		2.51	
Benzo(g,h,i)perylene	191-24-2	1800	33000	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	0.616		ND(<0.0085)	U	0.0656		0.359	
Benzo(k)fluoranthene	207-08-9	1.6	430	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	1.21		ND(<0.0085)	U	0.106		0.72	
Chrysene	218-01-9	16	4300	mg/kg	0.0084		0.0136		2.36		ND(<0.0085)	U	0.1805		1.17	
Dibenz(a,h)anthracene	53-70-3	0.016	4.3	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	0.322		ND(<0.0085)	U	0.02805		0.194	
Fluoranthene	206-44-0	2400	44000	mg/kg	0.008		0.0229		4.74		ND(<0.0085)	U	0.2395		1.98	
Fluorene	86-73-7	2900	62000	mg/kg	ND(<0.0079)	U	0.0153		0.896		ND(<0.0085)	U	0.02255		0.269	
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	43	mg/kg	ND(<0.0079)	U	ND(<0.0102)	U	0.736		ND(<0.0085)	U	0.06625		0.388	
Naphthalene	91-20-3	4.1	180	mg/kg	ND(<0.0079)	U	0.0144		0.775		ND(<0.0085)	U	0.08035		0.507	
Phenanthrene	85-01-8	23000	700000	mg/kg	0.0271		0.052		4.7		0.0182		0.186		1.74	
Pyrene	129-00-0	2300	66000	mg/kg	ND(<0.0079)	U	0.0173		4.21		ND(<0.0085)	U	0.217		1.94	
Metals																
Arsenic	7440-38-2	0.43	35	mg/kg	6.6		10.6		14.9		7.2		11.7		7.3	
Lead	7439-92-1	400	1000	mg/kg	12.5		20.6		26.8		16.5		26.7		41	
General Chemistry																
Percent Moisture	--	No SL	No SL	%	15.8		35.1		18.4		23.2		16.6		7.2	

Notes:

(1) RES WV De Minimus SL: WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil (June 2020)

(2) IND WV De Minimus SL: WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Industrial Soil (June 2020). Exceedances were shaded.

CASRN = Chemical Abstract Services Registry Number

mg/kg = milligrams per kilogram; SL = screening level

U = Data qualifier code indicating that analyte was undetected at the detection limit.

Table 4-4
2021 Sediment (SED) Analytical Results
Cheat River Trail - Preston County, West Virginia

			Sample Location:	SED-1-U		SED-1-D		SED-2-U		SED-2-D		SED-3-U		SED-3-D		SED-4-U		SED-5-U		SED-5-D	
			Sample Name:	SED-1-U (0-0.5)		SED-1-D (0-0.5)		SED-2-U (0-0.5)		SED-2-D (0-0.5)_COMB		SED-3-U (0-0.5)		SED-3-D (0-0.5)		SED-4-U (0-0.5)		SED-5-U (0-0.5)		SED-5-D (0-0.5)	
			Sample Date:	3/16/2021		3/16/2021		3/17/2021		3/17/2021		3/17/2021		3/17/2021		3/17/2021		3/17/2021		3/17/2021	
Chemical	CASRN	RES WV De Minimus SL (mg/kg) (1)	SSS REC SL (mg/kg)	Units	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Volatile Organic Compounds (VOCs)																					
Naphthalene	91-20-3	4.1	50.3	mg/kg	ND(<0.0168)	U	ND(<0.008)	U	ND(<0.0155)	U	ND(<0.0121)	U	ND(<0.0214)	U	ND(<0.0124)	U	ND(<0.0179)	U	ND(<0.0213)	U	ND(<0.0111)	U
Semi-volatile Organic Compounds (SVOCs)																					
Acenaphthene	83-32-9	4100	89700	mg/kg	ND(<0.0138)	U	ND(<0.0103)	U	ND(<0.0153)	U	ND(<0.0127)	U	0.0288		0.116		ND(<0.0202)	U	ND(<0.0325)	U	ND(<0.0118)	U
Acenaphthylene	208-96-8	4200	89700	mg/kg	ND(<0.0138)	U	0.0253		ND(<0.0153)	U	0.0182		0.0445		ND(<0.0163)	U	0.0484		ND(<0.0325)	U	ND(<0.0118)	U
Anthracene	120-12-7	23000	448000	mg/kg	ND(<0.0138)	U	0.0451		ND(<0.0153)	U	0.0287		0.048		0.0704		0.0583		ND(<0.0325)	U	ND(<0.0118)	U
Benzo(a)anthracene	56-55-3	0.21	28.3	mg/kg	0.0343		0.145		0.0223		0.09535		0.164		0.201		0.241		ND(<0.0325)	U	0.0475	
Benzo(a)pyrene	50-32-8	0.016	2.87	mg/kg	0.0439		0.232		0.0262		0.0854		0.203		0.273		0.278		ND(<0.0325)	U	0.0372	
Benzo(b)fluoranthene	205-99-2	0.16	28.7	mg/kg	0.0893		0.496		0.0465		0.1955		0.426		0.458		0.564		ND(<0.0325)	U	0.0633	
Benzo(g,h,i)perylene	191-24-2	1800	44800	mg/kg	0.0352		0.202		0.0186		0.04575		0.115		0.191		0.121		ND(<0.0325)	U	0.0159	
Benzo(k)fluoranthene	207-08-9	1.6	287	mg/kg	0.0293		0.129		0.0174		0.05455		0.108		0.164		0.175		ND(<0.0325)	U	0.0216	
Chrysene	218-01-9	16	2870	mg/kg	0.0664		0.256		0.0352		0.15		0.255		0.215		0.321		ND(<0.0325)	U	0.0489	
Dibenz(a,h)anthracene	53-70-3	0.016	2.87	mg/kg	ND(<0.0138)	U	0.0576		ND(<0.0153)	U	0.0194		0.0397		0.0466		0.0432		ND(<0.0325)	U	ND(<0.0118)	U
Fluoranthene	206-44-0	2400	59800	mg/kg	0.0641		0.192		0.0501		0.202		0.279		0.382		0.434		ND(<0.0325)	U	0.085	
Fluorene	86-73-7	2900	59800	mg/kg	ND(<0.0138)	U	ND(<0.0103)	U	ND(<0.0153)	U	ND(<0.0127)	U	0.0328		0.0391		ND(<0.0202)	U	ND(<0.0325)	U	ND(<0.0118)	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	28.7	mg/kg	0.0304		0.171		0.0154		0.04315		0.113		0.174		0.121		ND(<0.0325)	U	0.0149	
Naphthalene	91-20-3	4.1	50.3	mg/kg	0.0381		0.0414		ND(<0.0153)	U	0.0166		0.0855		0.0288		0.0306		ND(<0.0325)	U	0.0132	
Phenanthrene	85-01-8	23000	448000	mg/kg	0.0783		0.0751		0.0451		0.04995		0.196		0.253		0.063		ND(<0.0325)	U	0.0378	
Pyrene	129-00-0	2300	44800	mg/kg	0.0576		0.215		0.0424		0.186		0.273		0.325		0.485		ND(<0.0325)	U	0.0768	
Metals																					
Arsenic	7440-38-2	0.43	16.9	mg/kg	16.9		15.4		7.1		10.8		23.9		10.1		5.8		ND(<4.6)	U	10.5	
Lead	7439-92-1	400	No SL	mg/kg	21.9		24.8		12.6		16.05		32.4		43.1		18.5		14.8		13.6	
General Chemistry																					
Percent Moisture	--	No SL	No SL	%	52.7		36		56.3		51.1		71.2		60		66.9		79.7		44.7	

Notes:
(1) RES WV De Minimus SL: WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil (June 2020).
using USEPA Regional Screening Level (RSL) Calculator (see Appendix B).
Exceedances were shaded.
CASRN = Chemical Abstract Services Registry Number
mg/kg = milligrams per kilogram; SL = screening level
U = Data qualifier code indicating that analyte was undetected at the detection limit.

Table 4-4
2021 Sediment (SED) Analytical Results
Cheat River Trail - Preston County, West Virginia

			Sample Location:		SED-6-U		SED-7-U	
			Sample Name:		SED-6-U (0-0.5)		SED-7-U (0-0.5)	
			Sample Date:		3/17/2021		3/17/2021	
Chemical	CASRN	RES WV De Minimus SL (mg/kg) (1)	SSS REC SL (mg/kg)	Units	Result	Flag	Result	Flag
Volatile Organic Compounds (VOCs)								
Naphthalene	91-20-3	4.1	50.3	mg/kg	ND(<0.0135)	U	ND(<0.014)	U
Semi-volatile Organic Compounds (SVOCs)								
Acenaphthene	83-32-9	4100	89700	mg/kg	ND(<0.0156)	U	ND(<0.0154)	U
Acenaphthylene	208-96-8	4200	89700	mg/kg	ND(<0.0156)	U	ND(<0.0154)	U
Anthracene	120-12-7	23000	448000	mg/kg	ND(<0.0156)	U	ND(<0.0154)	U
Benzo(a)anthracene	56-55-3	0.21	28.3	mg/kg	ND(<0.0156)	U	0.034	
Benzo(a)pyrene	50-32-8	0.016	2.87	mg/kg	ND(<0.0156)	U	0.0407	
Benzo(b)fluoranthene	205-99-2	0.16	28.7	mg/kg	0.0268		0.0848	
Benzo(g,h,i)perylene	191-24-2	1800	44800	mg/kg	ND(<0.0156)	U	0.0225	
Benzo(k)fluoranthene	207-08-9	1.6	287	mg/kg	ND(<0.0156)	U	0.0246	
Chrysene	218-01-9	16	2870	mg/kg	0.0203		0.0527	
Dibenz(a,h)anthracene	53-70-3	0.016	2.87	mg/kg	ND(<0.0156)	U	ND(<0.0154)	U
Fluoranthene	206-44-0	2400	59800	mg/kg	0.0201		0.0469	
Fluorene	86-73-7	2900	59800	mg/kg	ND(<0.0156)	U	ND(<0.0154)	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.16	28.7	mg/kg	ND(<0.0156)	U	0.0204	
Naphthalene	91-20-3	4.1	50.3	mg/kg	ND(<0.0156)	U	0.0289	
Phenanthrene	85-01-8	23000	448000	mg/kg	ND(<0.0156)	U	0.0461	
Pyrene	129-00-0	2300	44800	mg/kg	0.0181		0.0506	
Metals								
Arsenic	7440-38-2	0.43	16.9	mg/kg	7.2		14.7	
Lead	7439-92-1	400	No SL	mg/kg	15.9		23.2	
General Chemistry								
Percent Moisture	--	No SL	No SL	%	57.2		56.9	

Notes:
(1) RES WV De Minimus SL: WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil (June 2020).
using USEPA Regional Screening Level (RSL) Calculator (see Appendix B).
Exceedances were shaded.
CASRN = Chemical Abstract Services Registry Number
mg/kg = milligrams per kilogram; SL = screening level
U = Data qualifier code indicating that analyte was undetected at the detection limit.

Table 4-5
2021 SPLP Analytical Results
Cheat River Trail - Preston County, West Virginia

		Sample Location:		SSS-02		SSS-05		SSS-08		SSS-10		SSS-12		SPLP-1		SPLP-2		SPLP-3		SPLP-4	
		Sample Name:		SSS-02(0'-2')(SPLP)		SSS-05(0'-2')(SPLP)		SSS-08 (0'-2')(SPLP)		SSS-10 (0'-2')(SPLP)		SSS-12(0'-2')(SPLP)		SPLP-1 (0-0.5)		SPLP-2 (0-0.5)		SPLP-3 (0-0.5)		SPLP-4 (0-0.5)	
		Sample Date:		2/17/2021		2/17/2021		2/17/2021		2/17/2021		2/17/2021		3/16/2021		3/17/2021		3/17/2021		3/17/2021	
Chemical	CASRN	SPLP SL (ug/L) (1)	Units	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Volatile Organic Compounds (VOCs) - SPLP																					
Chlorobenzene	108-90-7	2000	ug/L	ND(<5)	U	ND(<5)	U	ND(<5)	U	--	--	--	--	ND(<5)	U	ND(<5)	U	ND(<5)	U	ND(<5)	U
Naphthalene (2)	91-20-3	3.4	ug/L	ND(<5)	U	ND(<5)	U	ND(<5)	U	ND(<5)	U	ND(<5)	U	ND(<5)	U	ND(<5)	U	ND(<5)	U	ND(<5)	U
Tetrachloroethene	127-18-4	100	ug/L	ND(<5)	U	ND(<5)	U	ND(<5)	U	--	--	--	--	ND(<5)	U	ND(<5)	U	ND(<5)	U	ND(<5)	U
Semi-Volatile Organic Compounds (SVOCs) - SPLP																					
Acenaphthene	83-32-9	4800	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	0.1		ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Acenaphthylene	208-96-8	6400	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Anthracene	120-12-7	36000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(a)anthracene	56-55-3	0.24	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(a)pyrene	50-32-8	4	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(b)fluoranthene	205-99-2	0.68	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(g,h,i)perylene	191-24-2	12000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(k)fluoranthene	207-08-9	6.8	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Chrysene	218-01-9	68	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Dibenz(a,h)anthracene (2)	53-70-3	0.068	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Fluoranthene	206-44-0	16000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Fluorene	86-73-7	3000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.68	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Naphthalene	91-20-3	3.4	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	0.22		ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Phenanthrene	85-01-8	120000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	0.14		ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Pyrene	129-00-0	1580	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Metals-SPLP																					
Arsenic	7440-38-2	200	ug/L	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U
Lead	7439-92-1	300	ug/L	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U	ND(<25)	U
General Chemistry																					
Percent Moisture	--	No SL	%	--	--	--	--	--	--	--	--	--	--	48.9		57.3		66.9		64.4	

Notes:

(1) Groundwater WV DEP De Minimis Screening Level (SL) was multiplied by 20 and used for screening SPLP results. The standard was multiplied by 20 to account for dilution which would occur if/when the leachate reaches groundwater.
(2) Detection limits for Naphthalene (VOC) and Dibenz(a,h)anthracene exceeded the SPLP SL. This will be addressed in the HHRA uncertainty assessment.

CASRN = Chemical Abstract Services Registry Number; ug/L = micrograms per liter; SL = screening level

U = Data qualifier code indicating that analyte was undetected at the detection limit.

Table 4-5
2021 SPLP Analytical Results
Cheat River Trail - Preston County, West Virginia

		Sample Location:		SPLP-5		SPLP-6		SPLP-7	
		Sample Name:		SPLP-5- (0-0.5)		SPLP-6 (0-0.5)		SPLP-7 (0-0.5)	
		Sample Date:		3/17/2021		3/17/2021		3/17/2021	
Chemical	CASRN	SPLP SL (ug/L) (1)	Units	Result	Flag	Result	Flag	Result	Flag
Volatile Organic Compounds (VOCs) - SPLP									
Chlorobenzene	108-90-7	2000	ug/L	ND(<5)	U	ND(<5)	U	ND(<5)	U
Naphthalene (2)	91-20-3	3.4	ug/L	ND(<5)	U	ND(<5)	U	ND(<5)	U
Tetrachloroethene	127-18-4	100	ug/L	ND(<5)	U	ND(<5)	U	ND(<5)	U
Semi-Volatile Organic Compounds (SVOCs) - SPLP									
Acenaphthene	83-32-9	4800	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Acenaphthylene	208-96-8	6400	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Anthracene	120-12-7	36000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(a)anthracene	56-55-3	0.24	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(a)pyrene	50-32-8	4	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(b)fluoranthene	205-99-2	0.68	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(g,h,i)perylene	191-24-2	12000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Benzo(k)fluoranthene	207-08-9	6.8	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Chrysene	218-01-9	68	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Dibenz(a,h)anthracene (2)	53-70-3	0.068	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Fluoranthene	206-44-0	16000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Fluorene	86-73-7	3000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.68	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Naphthalene	91-20-3	3.4	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Phenanthrene	85-01-8	120000	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Pyrene	129-00-0	1580	ug/L	ND(<0.1)	U	ND(<0.1)	U	ND(<0.1)	U
Metals-SPLP									
Arsenic	7440-38-2	200	ug/L	ND(<25)	U	ND(<25)	U	ND(<25)	U
Lead	7439-92-1	300	ug/L	ND(<25)	U	ND(<25)	U	ND(<25)	U
General Chemistry									
Percent Moisture	--	No SL	%	80.5		59.1		62.2	

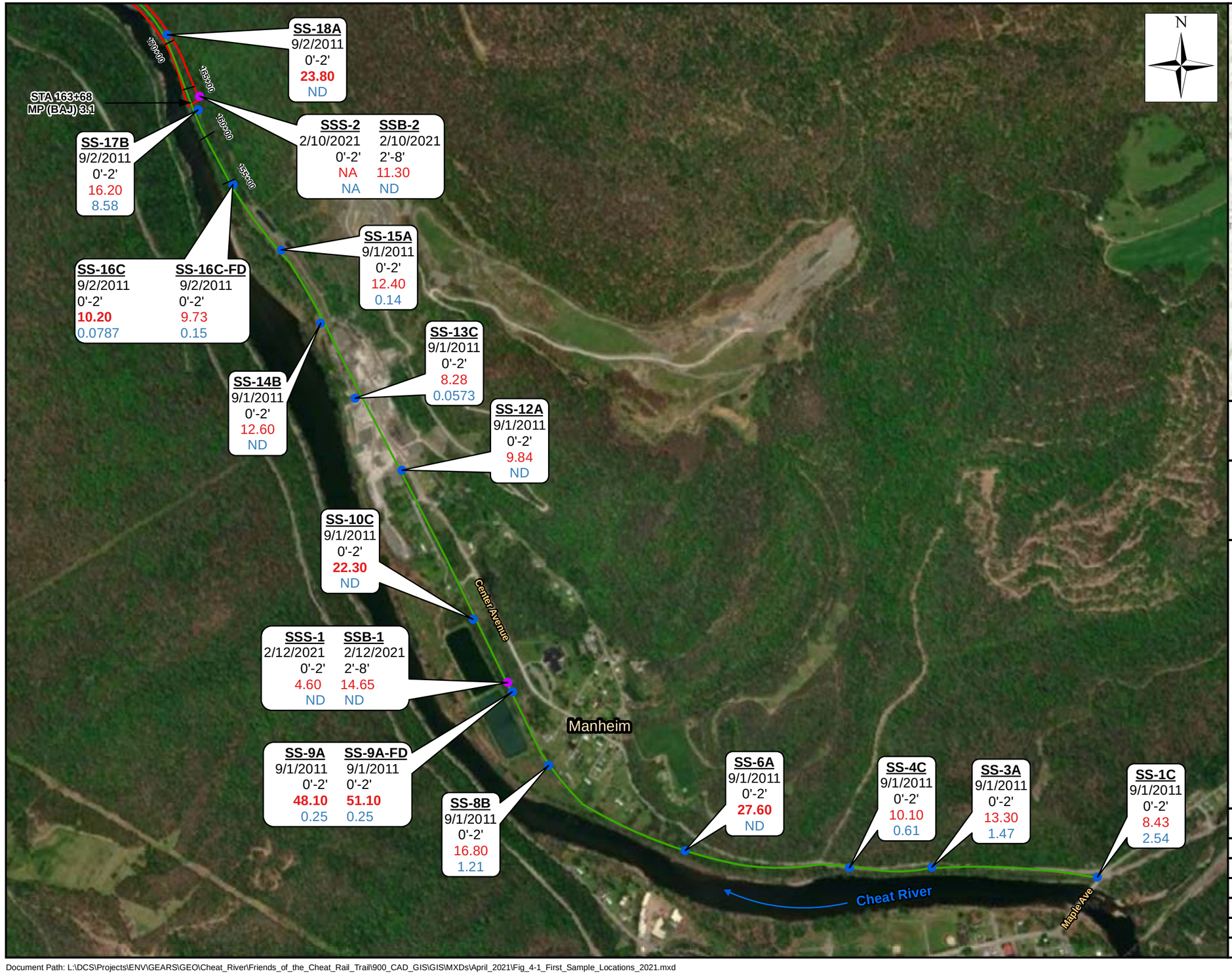
Notes:

(1) Groundwater WV DEP De Minimis Screening Level (SL) was multiplied by 20 and used for screening SPLP results. The standard was multiplied by 20 to account for dilution which would occur if/when the leachate reaches groundwater.
(2) Detection limits for Naphthalene (VOC) and Dibenz(a,h)anthracene exceeded the SPLP SL. This will be addressed in the HHRA uncertainty assessment.

CASRN = Chemical Abstract Services Registry Number; ug/L = micrograms per liter; SL = screening level

U = Data qualifier code indicating that analyte was undetected at the detection limit.

Match Line - See Figure 2-3



AECOM

Figure 4-1
Sampling Locations
Site Assessment Report
Cheat River Rail-Trail Corridor

Legend

- Sample Locations, 2021
- Sample Locations, 2011
- Site Boundary
- Rail-Trail
- 160+00 Station Location

Notes:
1) Site-Specific Standard Recreator Screening Values: As: 16.9 mg/kg, B(a)P: 2.87 mg/kg
2) **Bold** = Screening Value Exceedance
3) Depth values are shown in feet below the ground surface.
4) The 2021 SSB samples were screened using the West Virginia Industrial De Minimis Screening Levels and all other samples were screened using Site-Specific Standard Recreator Screening Levels.

fbgs = Feet below ground surface
MP = Mile Post
ND = Not Detected
NA = Not Available
Result = Detected Concentration
SS or SSS = Surface Soil
SSB = Subsurface Soil

Key:
Sample Location ID
Sample Date
Sample Depth (fbgs)
Arsenic (mg/kg)
Benzo(a)pyrene (mg/kg)

0 0.25 0.5 Miles

GIS BY: **GC**	DATE MODIFIED: **5/24/2021**
REVIEWED BY: **KL**	DATE REVIEWED: **5/24/2021**
SCALE: **TS**	PLOT DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

Document Path: L:\DCS\Projects\ENV\GEARS\GEO\Cheat_River\Friends_of_the_Cheat_Rail_Trail\900_CAD_GIS\GIS\MXDs\April_2021\Fig_4-1_First_Sample_Locations_2021.mxd

Match Line - See Figure 2-4

SSS-6 2/11/2021 0'-2' 5.30 0.04
SSB-6 2/11/2021 2'-8' 2.80 0.08

SS-3D 9/2/2011 0'-2' 15.70 0.09

SS-2D 9/2/2011 0'-2' 4.88 **1.67**

SS-37C 9/2/2011 0'-2' 4.29 0.35

SS-40C 9/2/2011 0'-2' 9.98 ND

SS-39A 9/2/2011 0'-2' **23.80** 0.69

SS-36A 9/2/2011 0'-2' 5.41 0.25

SS-35B 9/2/2011 0'-2' 6.31 0.57

SS-34C 9/2/2011 0'-2' 7.01 0.0528

SS-33A 9/2/2011 0'-2' 13.10 **7.17**

SSS-5 2/10/2021 0'-2' NA
SSB-5 2/10/2021 2'-8' 11.80 ND

SSS-4 2/10/2021 0'-2' 4.50 ND
SSB-4 2/10/2021 2'-8' **30.10** 0.13

SS-25C 9/2/2011 0'-2' 6.11 ND

SS-24A 9/2/2011 0'-2' 8.82 0.50

SSS-3 2/10/2021 0'-2' **78.40** 0.14
SSB-3 2/10/2021 2'-8' 9.90 ND

SS-19C 9/2/2011 0'-2' **61.70** 0.15

SS-30A 9/2/2011 0'-2' **23.10** 0.899

SS-28C 9/2/2011 0'-2' **62.90** 0.11

SS-27A 9/2/2011 0'-2' 7.36 ND

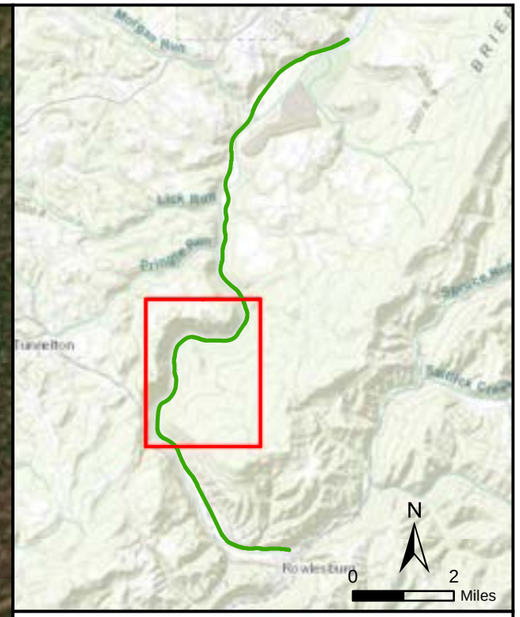
SS-1D 9/1/2011 0'-2' **25.00** 0.14

SS-21A 9/2/2011 0'-2' ND ND

MP (BAJ) 6.0
MP (BAJ) 5.0
MP (BAJ) 4.0

Cheat River
WV-72 River Road

N



AECOM

Figure 4-2
Sampling Locations
Site Assessment Report
Cheat River Rail-Trail Corridor

Legend
- Sample Locations, 2021
- Sample Locations, 2011
- Site Boundary
- Rail-Trail
- 175+00 Station Location

Notes:
1) Site-Specific Standard Recreator Screening Values: As: 16.9 mg/kg, B(a)P: 2.87 mg/kg
2) **Bold** = Screening Value Exceedance
3) Depth values are shown in feet below the ground surface.
4) The 2021 SSB samples were screened using the West Virginia Industrial De Minimis Screening Levels and all other samples were screened using Site-Specific Standard Recreator Screening Levels.

fbgs = Feet below ground surface
MP = Mile Post
ND = Not Detected
NA = Not Available
Result = Detected Concentration
SS or SSS = Surface Soil
SSB = Subsurface Soil

Key:
Sample Location ID
Sample Date
Sample Depth (fbgs)
Arsenic (mg/kg)
Benzo(a)pyrene (mg/kg)

0 0.25 0.5 Miles

GIS BY: **GC**	DATE MODIFIED: **5/24/2021**
REVIEWED BY: **KL**	DATE REVIEWED: **5/24/2021**
SCALE: **TS**	PLOT DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

Match Line - See Figure 2-2

Document Path: L:\DCS\Projects\ENV\GEARS\GEO\Cheat_River\Friends_of_the_Cheat_Rail_Trail\900_CAD_GIS\GIS\MXDs\April_2021\Fig_4-2_Second_Sample_Locations_2021.mxd

Match Line - See Figure 2-5

SED-6-D	SED-6-U	SPLP-6
NS	3/17/2021	3/17/2021
0'-0.5'	0'-0.5'	0'-0.5'
NS	7.20	ND
NS	ND	ND

SED-5-D	SED-5-U	SPLP-5
3/17/2021	3/17/2021	3/17/2021
0'-0.5'	0'-0.5'	0'-0.5'
10.50	ND	ND
0.04	ND	ND

SED-7-D	SED-7-U	SPLP-7
NS	3/17/2021	3/17/2021
0'-0.5'	0'-0.5'	0'-0.5'
NS	14.70	ND
NS	0.04	ND

SSS-10	SSB-10
2/9/2021	2/9/2021
0'-2'	2'-8'
6.30	6.60
0.55	ND

SED-8-D	SED-8-U	SPLP-8
NS	NS	NS
0'-0.5'	0'-0.5'	0'-0.5'
NS	NS	NS
NS	NS	NS

SS-5D
9/2/2011
0'-2'
7.18
0.0773

SS-47B
9/2/2011
0'-2'
10.30
ND

SS-46C
9/2/2011
0'-2'
ND
0.17

SSS-7	SSB-7
2/11/2021	2/11/2021
0'-2'	2'-8'
33.80	8.15
0.73	ND

SS-42A
9/2/2011
0'-2'
9.92
ND

SS-56B
9/8/2011
0'-2'
16.80
0.88

SS-55C
9/8/2011
0'-2'
10.40
ND

SS-54A
9/8/2011
0'-2'
107.00
0.65

SS-53B
9/8/2011
0'-2'
10.40
0.43

SS-6D
9/2/2011
0'-2'
11.10
1.55

SS-51A
9/2/2011
0'-2'
29.10
0.0496

SSS-9	SSB-9
2/9/2021	2/9/2021
0'-2'	2'-8'
30.65	11.80
0.03	ND

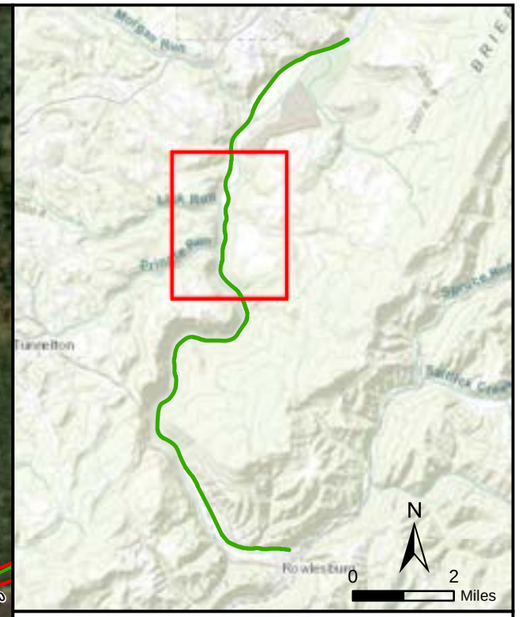
SS-48A
9/2/2011
0'-2'
52.80
2.54

SSS-8	SSB-8
2/11/2021	2/11/2021
0'-2'	2'-8'
NA	9.50
NA	0.01

SS-45A
9/2/2011
0'-2'
5.94
ND

SS-4D
9/2/2011
0'-2'
8.41
0.42

SS-43C
9/2/2011
0'-2'
13.90
0.10



AECOM

Figure 4-3
Sampling Locations
Site Assessment Report
Cheat River Rail-Trail Corridor

Legend

- Sample Locations, 2021
- Sample Locations, 2011
- Site Boundary
- Rail-Trail
- 355+00 Station Location

Notes:
1) Site-Specific Standard Recreator Screening Values: As: 16.9 mg/kg, B(a)P: 2.87 mg/kg
2) **Bold** = Screening Value Exceedance
3) Depth values are shown in feet below the ground surface.
4) The 2021 SSB samples were screened using the West Virginia Industrial De Minimis Screening Levels and all other samples were screened using Site-Specific Standard Recreator Screening Levels.

fbgs = Feet below ground surface
MP = Mile Post
ND = Not Detected
NA = Not Available
NS = Not Sampled
Result = Detected Concentration
SS or SSS = Surface Soil
SSB = Subsurface Soil

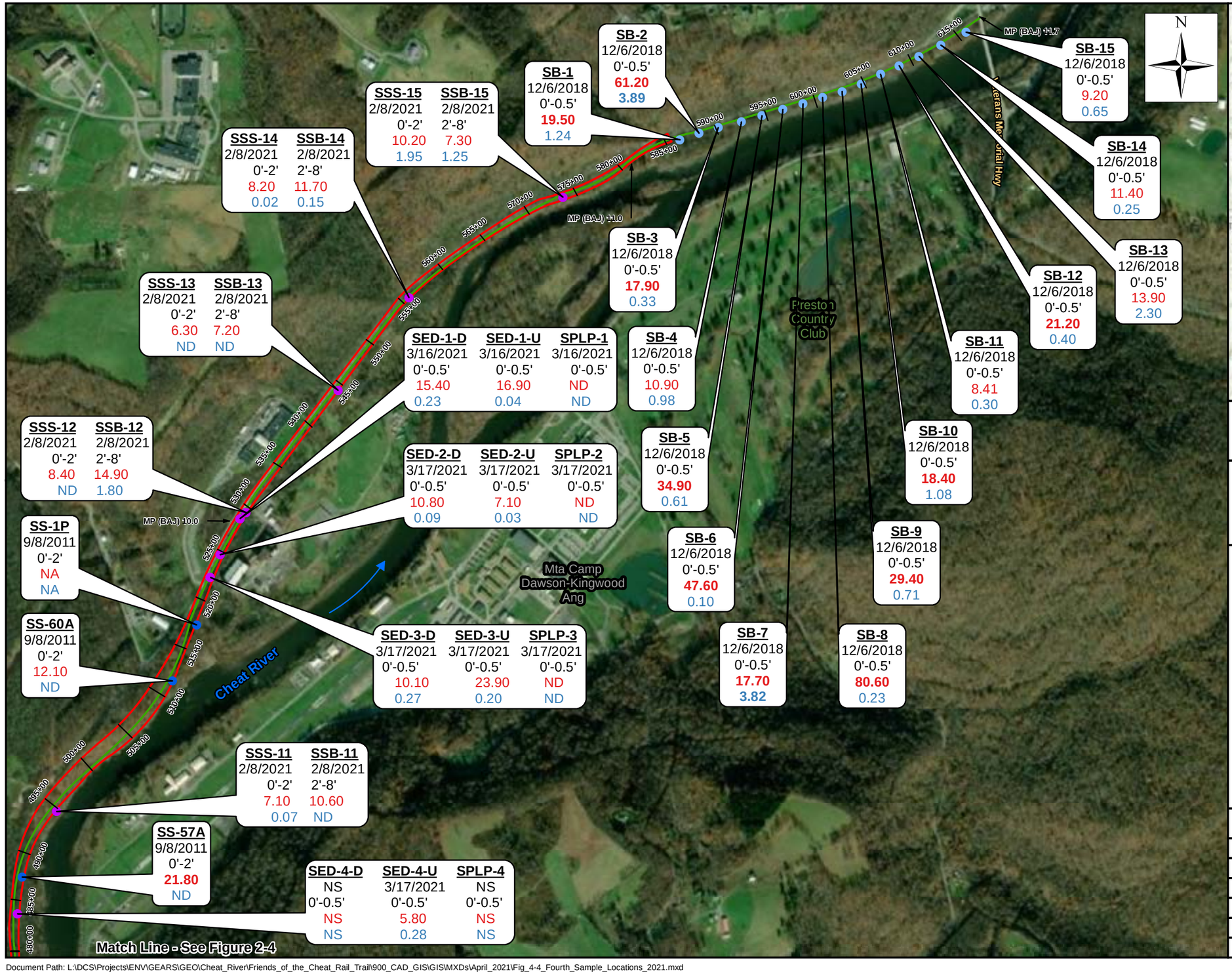
Key:
Sample Location ID
Sample Date
Sample Depth (fbgs)
Arsenic (mg/kg)
Benzo(a)pyrene (mg/kg)

0 0.25 0.5 Miles

GIS BY: **GC**	DATE MODIFIED: **5/24/2021**
REVIEWED BY: **KL**	DATE REVIEWED: **5/24/2021**
SCALE: **TS**	PLOT DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

Match Line - See Figure 2-3

Document Path: L:\DCS\Projects\ENV\GEARS\GEO\Cheat_River\Friends_of_the_Cheat_Rail_Trail\900_CAD_GIS\GIS\MXDs\April_2021\Fig_4-3_Third_Sample_Locations_2021.mxd



AECOM

Figure 4-4
Sampling Locations
Site Assessment Report
Cheat River Rail-Trail Corridor

Legend

- Sample Locations, 2021
- Sample Locations, 2018
- Sample Locations, 2011
- Site Boundary
- Rail-Trail
- 480+00 Station Location

Notes:
1) Site-Specific Standard Recreator Screening Values: As: 16.9 mg/kg, B(a)P: 2.87 mg/kg
2) **Bold** = Screening Value Exceedance
3) Depth values are shown in feet below the ground surface.
4) The 2021 SSB samples were screened using the West Virginia Industrial De Minimis Screening Levels and all other samples were screened using Site-Specific Standard Recreator Screening Levels.

fbgs = Feet below ground surface
MP = Mile Post
ND = Not Detected
NA = Not Available
NS = Not Sampled
Result = Detected Concentration
SB = Soil Boring
SED = Sediment
SS or SSS = Surface Soil
SSB = Subsurface Soil

Key:
Sample Location ID
Sample Date
Sample Depth (fbgs)
Arsenic (mg/kg)
Benzo(a)pyrene (mg/kg)

0 0.25 0.5 Miles

GIS BY: **GC**	DATE MODIFIED: **5/24/2021**
REVIEWED BY: **KL**	DATE REVIEWED: **5/24/2021**
SCALE: **TS**	PLOT DATE:
PROJECT NO.: 60589127	
REVISED BY:	REV. DATE
REVISED BY:	REV. DATE

Document Path: L:\DCS\Projects\ENV\GEARS\GEO\Cheat_River\Friends_of_the_Cheat_Rail_Trail\900_CAD_GIS\GIS\MXDs\April_2021\Fig_4-4_Fourth_Sample_Locations_2021.mxd

5. Revised Conceptual Site Model

The preliminary CSM was updated and revised based on the results of the recent Site Assessment activities. The updated CSM is comprised of two sub-models: a CSEM for human receptors, and an ECSM that identifies valued habitat and evaluates potential ecological receptors that potentially could be impacted by Site operations. The following describes the proposed revisions to each of the CSEM and CSM sub-models.

5.1 Human Health Conceptual Site Exposure Model

A preliminary CSEM was developed for the Site Characterization Work Plan to identify potential exposure pathways and human receptors that may be exposed to Site-related constituents detected in environmental media, and to support scoping of the site assessment investigations. Based on results of the site assessment investigation, the following revisions have been made to the CSEM:

- All exposure pathways associated with discharge of groundwater to the Cheat River are incomplete. This is based on the SPLP analysis which indicates that constituents in soil at the Site would have little minimal impact on groundwater in the aquifer underlying the Site.
- Exposure pathways related to inhalation of constituents volatilizing from groundwater by outdoor receptors at the site are incomplete. This is based in both the depth to groundwater and the results of the SPLP analysis.

The revised CSEM is shown in **Figure 5-1**.

5.2 Revised Ecological Conceptual Site Model

A preliminary ECSM was developed to depict the potential source areas, exposure media, and migration pathways used to identify significant exposure pathways for evaluation in the ERA Report. Based on information collected during site investigation activities, the following revisions were made to the ECSM.

- All exposure pathways associated with discharge of groundwater to the Cheat River are incomplete. This is based on the SPLP analysis which indicates that constituents in soil at the Site would have little minimal impact on groundwater in the aquifer underlying the Site.
- Shallow groundwater does not occur and is not discharging to surface water at the Site. Surface water at the Site is ponded precipitation rather than exposed groundwater.

The revised ECSM is shown in **Figure 5-2**.

5.3 Conclusions and Recommendations

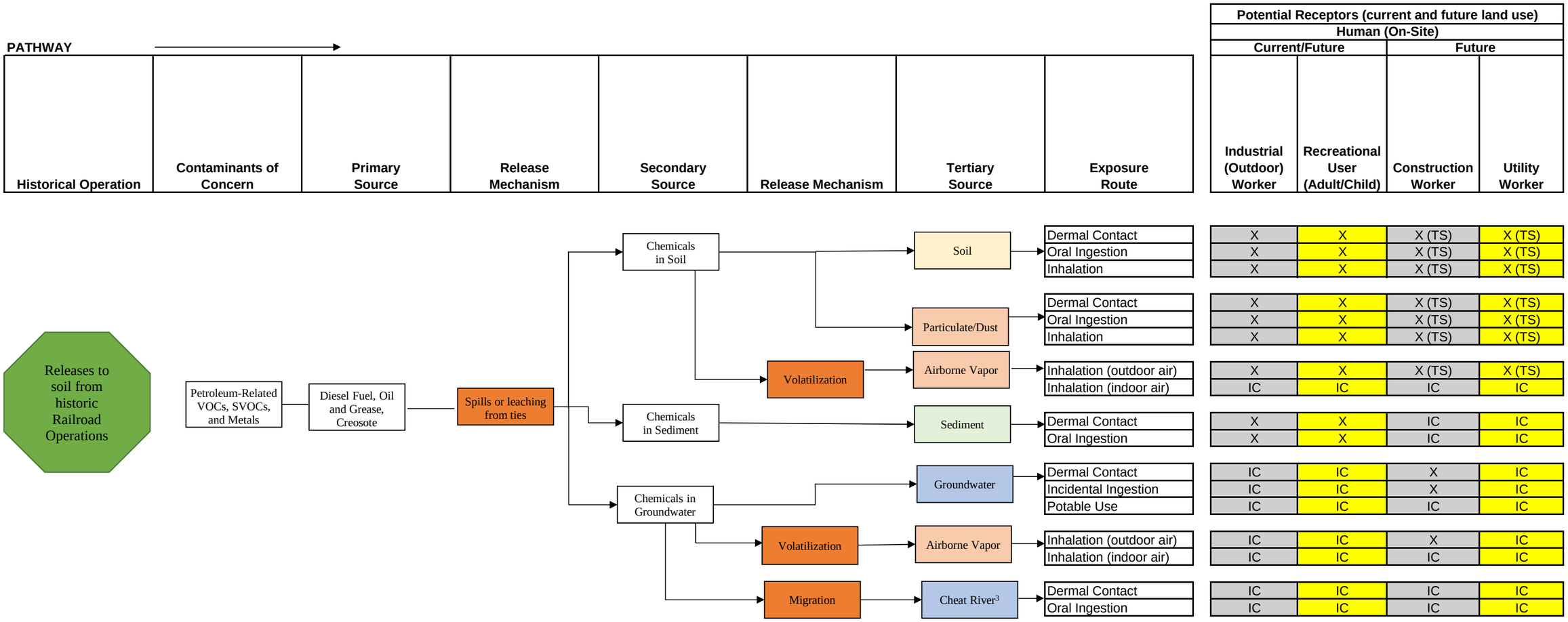
Based on the results discussed herein, further evaluation/investigation for the Site will include human health and ecological risk assessments to examine the potential for unacceptable risks and inform risk-management decisions.

Surface soil and sediment sample results did not exceed the site-specific recreator screening criteria with the exception of arsenic, which was detected above the screening level in three surface soil samples and one sediment sample. None of the subsurface soil sample results exceeded the Industrial Screening Criteria. None of the detected SPLP results exceeded the Groundwater WVDEP De Minimis Screening Level multiplied by 20. Revisions to the CSEM and ECSM are described above and reflected in Figures 5-1 and 5-2. have been proposed for the preliminary HHRA CSEM.

5.4 Reporting Schedule

Based on the schedule contained in the Voluntary Remediation Agreement, the anticipated schedule and deadlines for remaining work plans and reports are as follows:

Document	Due
Human Health (HHRA) & Ecological Risk Assessment (ERA)	60 days after SAR approval
Remedial Action Work Plan (RAWP)	60 days after HHRA & ERA approval
Remedial Action Completion Report (as applicable)	180 days after RAWP approval

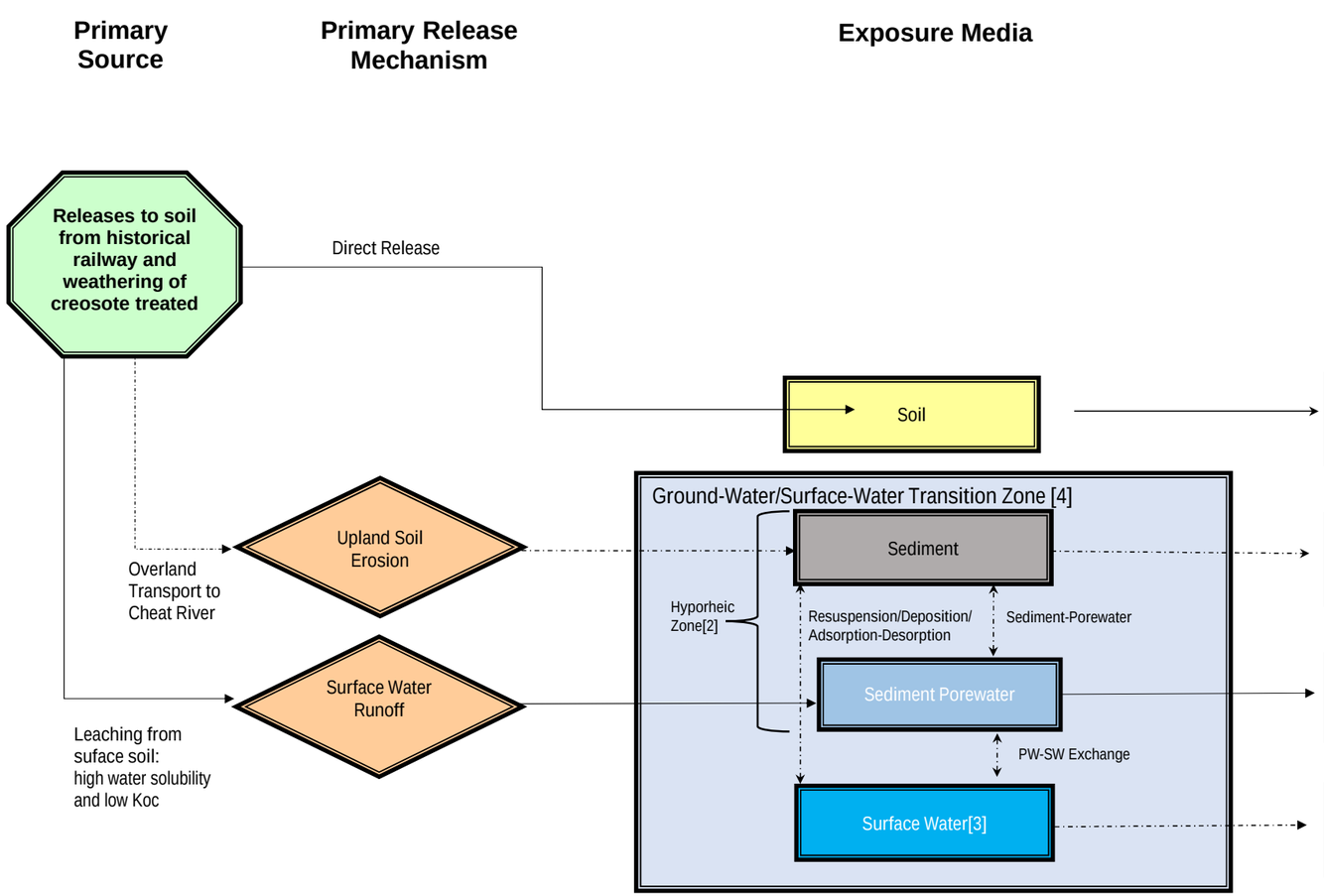


Notes:

1. The site deed restricts property use to recreational only and prevents residential use and potable use of groundwater.
2. Exposure to on-site ponded water will be evaluated using sediment samples.
3. SPLP data supports migration pathway as incomplete.

X = Potentially Complete Exposure Pathway
IC = Incomplete Exposure Pathway
X (TS) = Exposure medium is total soil only

Figure 5-1
Revised Conceptual Site Exposure Model
Supplemental Site Assessment Report
Cheat River Rail-Trail Corridor, West Virginia



Exposure Routes	Soil Macroinvertebrates	Benthic Macroinvertebrates	Avian/Mammalian Carnivores/Piscivores	Avian/Mammalian Invertivore	Avian/Mammalian Herbivore
Direct Contact/Absorption	●	☒	☐	☐	☐
Direct Ingestion	●	☒	☒	☒	☒
Incidental Ingestion	--	☒	●	●	●
Prey and Plant Dietary Items	--	☒	●	●	●

Exposure Routes	Soil Macroinvertebrates	Benthic Macroinvertebrates	Avian/Mammalian Carnivores/Piscivores	Avian/Mammalian Invertivore	Avian/Mammalian Herbivore
Direct Contact/Absorption	☒	●	☐	☐	☐
Direct Ingestion	☒	●	☒	☒	☒
Incidental Ingestion	--	--	●	●	☐
Prey Items	--	--	●	●	☐

Exposure Routes	Soil Macroinvertebrates	Benthic Macroinvertebrates	Avian/Mammalian Carnivores/Piscivores	Avian/Mammalian Invertivore	Avian/Mammalian Herbivore
Direct Contact/Absorption	☒	●	☒	☒	☒
Direct Ingestion	☒	●	☒	☒	☒
Incidental Ingestion	--	--	☒	--	☒
Prey Items	--	--	☒	☒	☒

Exposure Routes	Soil Macroinvertebrates	Benthic Macroinvertebrates	Avian/Mammalian Carnivores/Piscivores	Avian/Mammalian Invertivore	Avian/Mammalian Herbivore
Direct Contact/Absorption	☒	●	☐	☐	☐
Direct Ingestion	☒	●	●	●	☐
Incidental Ingestion	--	--	●	●	☐
Prey Items	--	--	☐	☐	☐

NOTES:

[1] Terrestrial wildlife receptors will be evaluated using exposure via soil and aquatic/semi-aquatic receptors will be evaluated using via sediment and surface water in the ERA Report.

[2] The hyporheic zone is defined as a "latticework of underground habitats through the sediments associated with the interstitial waters in the substrate beneath and adjacent to moving surface-waters" (USEPA, 2008).

[3] Surface water was assessed using sediment samples collected near the surface water interface.

[4] Based on SPLP, pathway for groundwater discharge to Cheat River is incomplete.

REFERENCES:

USEPA. 2008. ECO Update/Ground Water Forum Issue Paper: Evaluating Ground-Water/Surface-Water Transition Zones in Ecological Risk Assessments. Publication 9285.6-17 EPA-540-R-06-072. July 2008.

LEGEND:

→	CONTAMINANT MIGRATION PATHWAY
⋯→	POTENTIAL CONTAMINANT MIGRATION PATHWAY
●	POTENTIAL COMPLETE PRIMARY EXPOSURE PATHWAY
☐	EXPOSURE PATHWAY IS COMPLETE OR POTENTIALLY COMPLETE AND INSIGNIFICANT
--	SIGNIFICANCE OF EXPOSURE PATHWAY IS UNCERTAIN
☒	INCOMPLETE EXPOSURE PATHWAY

Figure 5-2
Revised Ecological Conceptual Site Model
Supplemental Site Assessment Report
Cheat River Rail-Trail Corridor, West Virginia

6. References

AECOM Technical Services, Inc. (AECOM), 2019. Summary of Field Activities. Cheat River Rail Trail Corridor, BAJ 11.1-11.67, 39°27'35.47"N 79°39'40.13"W to 39°27'47.31"N 79°39'2.35"W. January 2019.

Bechtel Jacobs, 1998a. *Empirical Models for the Uptake of Inorganic Chemicals from Soil by Plants*. Bechtel Jacobs Company LLC, Oak Ridge, TN. BJC/OR-133.

Bechtel Jacobs, 1998b. *Biota Sediment Accumulation Factors for Invertebrates: Review and Recommendations for the Oak Ridge Reservation*. Bechtel Jacobs Company LLC, Oak Ridge, TN. BJC/OR-112.

Friends of the Cheat (FOC), 2005, Watershed Based Plan for the Lower Cheat River Watershed from River Mile 43 at Rowlesburg, WV to the West Virginia/Pennsylvania Border, including all tributaries, Prepared by Downstream Strategies, Morgantown, WV.

Hennen, Ray V. and Reger, David B, 1914, Map II of Preston County showing General and Economic Geology, WV Geologic Survey. West Virginia Geological and Economic Survey., Latimer, W. J., Price, W. Armstrong (William Armstrong)., Reger, D. B. (David Bright)., Hennen, R. V. (Ray Vernon). (1914). [County reports and maps]: Preston County. [Wheeling, W. Va.: Wheeling news litho. co..

Los Alamos National Laboratory (LANL), 2017. ECORISK Database Release 4.1 (September 2017). Minimum ESLs Reported for Plants, Soil Macroinvertebrates, Birds, and Mammals.

Nagy K.A., 2001. *Food requirements of wild animals: Predictive equations for free-living mammals, reptiles, and birds.* Nutrition Abstracts and Reviews, Series B: Livestock Feeds and Feeding, Volume 71, No. 10.

New Jersey Department of Environmental Protection (NJDEP), 2013. NJDEP Impact to Ground Water Dilution-Attenuation Factor Calculator – V2.1, November 2013.

RBR Consulting, Inc. (RBR), 2012. Human Health Risk Assessment for the Cheat River Trail. Preston County, West Virginia. April 2012.

Sample and Suter, 1994*. Estimating Exposure of Terrestrial Wildlife to Contaminants.* ES/ER/TM-125. Oak Ridge National Laboratory, Oak Ridge TN.

Sample et al., 1996. *Toxicological Benchmarks for Wildlife: 1996 Revision.* Prepared for United States Department of Energy. ES/ER/TM-86/R3.

Sample et al., 1998a. *Development and Validation of Bioaccumulation Models for Earthworms.* Oak Ridge National Laboratory, Oak Ridge TN. 93 pp. ES/ER/TM-220.

Sample et al., 1998b*. Development and Validation of Bioaccumulation Models for Small Mammals*. Oak Ridge National Laboratory, Oak Ridge TN. 89 pp. ES/ER/TM-219.

Triad Engineering, Inc. (Triad), 2012. Phase II Environmental Site Assessment, Cheat River Trail, Preston County, West Virginia, May 2012.

United States Department of Agriculture (USDA), 2004. Dekalb Soil Series. Accessed September 2020. May 2004. https://soilseries.sc.egov.usda.gov/OSD_Docs/D/DEKALB.html

USDA, 2020. Web Soil Survey. Accessed September 2020. https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

United States Environmental Protection Agency (USEPA), 1993. *Wildlife Exposure Factors Handbook. Volumes I and II*. EPA/600/R-93/187a&b. Office of Health and Environmental Assessment, Office of Research and Development, Washington, D.C.

USEPA, 1997. *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments*. Office of Solid Waste and Emergency Response. USEPA 540/R-97/006. June 1997.

USEPA, 2001. *The Role of Screening-Level Risk Assessments and Refining Contaminants of Concern in Baseline Ecological Risk Assessments*. Office of Solid Waste and Emergency Response. USEPA 540/F-01/014. June 2001.

USEPA, 2007. *Guidance for Developing Ecological Soil Screening Levels*. Office of Solid Waste and Emergency Response, Washington, D.C. November. OSWER Directive 92857-55.

USEPA, 2008a. ECO Update/Ground Water Forum Issue Paper: Evaluating Ground-Water/Surface-Water Transition Zones in Ecological Risk Assessments. Publication 9285.6-17 EPA-540-R-06-072. July 2008.

USEPA, 2008b. Ecological Soil Screening Level (Eco-SSL) Guidance and Documents. Published and revised from 2003-2008. https://www.epa.gov/risk/ecological-soil-screening-level-eco-ssl-guidance-and-documents

USEPA, 2010. Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells, EQASOP-GW 001. January 2010.

USEPA, 2015. *Determination of the Biologically Relevant Sampling Depth for Terrestrial and Aquatic Ecological Risk Assessments (Final Report)*. U.S. Environmental Protection Agency, Ecological Risk Assessment Support Center, Cincinnati, OH, EPA/600/R-15/176, 2015.

USEPA, 2017. *National Functional Guidelines for Superfund Organic Methods Data Review*, (SOM02.4), EPA-540-R-2017-002, January 2017.

USEPA, 2018. *Region 4 Ecological Risk Assessment Supplemental Guidance*. Scientific Support Section, Superfund Division, USEPA Region 4. Originally published November 1995 and last updated March 2018.

USEPA, 2020. USEPA Regional Screening Levels (RSLs) dated November 2020 that are protective of a target hazard quotient of 0.1 and a target cancer risk of 1E-06.

West Virginia Department of Environmental Protection (WVDEP). West Virginia Voluntary Remediation Program Guidance Manual, WVDEP 60CSR3 Table 60-3B De Minimis Screening Levels, June 2020.

Appendix A
Historical Soil Data (2011 and 2018)

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS1C 9/1/2011	SS3A 9/1/2011	SS4C 9/1/2011	SS06A 9/1/2011	SS8B 9/1/2011	SS9A 9/1/2011	SS9A FD 9/1/2011	SS10C 9/1/2011	SS12A 9/1/2011
Metals													
Arsenic	7440-38-2	mg/Kg	0.43	16.9	8.43	13.3	10.1	27.6	16.8	48.1	51.1	22.3	9.84
Lead	7439-92-1	mg/Kg	400	NC	25.5	19.6	21.7	22.5	11	31.7	15.7	18	7.32
SVOCs													
1,2,4-Trichlorobenzene	120-82-1	mg/Kg	24	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
1,2-Dichlorobenzene	95-50-1	mg/Kg	380	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
1,3-Dichlorobenzene	541-73-1	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
1,4-Dichlorobenzene	106-46-7	mg/Kg	2.8	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
1-Methylnaphthalene	90-12-0	mg/Kg	24	NC	ND(<1.79)	0.0505	0.0501	0.115	0.0887	ND(<0.0875)	ND(<0.092)	ND(<0.11)	ND(<0.0743)
2,4,5-Trichlorophenol	95-95-4	mg/Kg	6300	NC	ND(<1.79)	ND(<0.963)	ND(<0.928)	ND(<1.34)	ND(<0.96)	ND(<1.09)	ND(<1.14)	ND(<1.37)	ND(<0.924)
2,4,6-Trichlorophenol	88-06-2	mg/Kg	49	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
2,4-Dichlorophenol	120-83-2	mg/Kg	190	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
2,4-Dimethylphenol	105-67-9	mg/Kg	1300	NC	ND(<1.79)	ND(<0.222)	ND(<0.214)	ND(<0.309)	ND(<0.221)	ND(<0.251)	ND(<0.264)	ND(<0.316)	ND(<0.213)
2,4-Dinitrophenol	51-28-5	mg/Kg	130	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
2,4-Dinitrotoluene	121-14-2	mg/Kg	1.7	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
2,6-Dinitrotoluene	606-20-2	mg/Kg	0.36	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
2-Chloronaphthalene	91-58-7	mg/Kg	5000	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
2-Chlorophenol	95-57-8	mg/Kg	340	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
2-Methylnaphthalene	91-57-6	mg/Kg	310	NC	0.265	0.0416	0.075	0.114	0.16	0.0483	0.0503	ND(<0.11)	ND(<0.0743)
2-Methylphenol	95-48-7	mg/Kg	3200	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
2-Nitroaniline	88-74-4	mg/Kg	630	NC	ND(<1.79)	ND(<0.963)	ND(<0.928)	ND(<1.34)	ND(<0.96)	ND(<1.09)	ND(<1.14)	ND(<1.37)	ND(<0.924)
2-Nitrophenol	88-75-5	mg/Kg	NE	NC	ND(<1.79)	ND(<0.227)	ND(<0.218)	ND(<0.316)	ND(<0.226)	ND(<0.256)	ND(<0.269)	ND(<0.322)	ND(<0.217)
3 & 4-Methylphenol	106-44-5	mg/Kg	6300	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
3,3'-Dichlorobenzidine	91-94-1	mg/Kg	1.2	NC	ND(<1.79)	ND(<0.771)	ND(<0.743)	ND(<1.08)	ND(<0.384)	ND(<0.871)	ND(<0.915)	ND(<1.1)	ND(<0.74)
3-Nitroaniline	99-09-2	mg/Kg	NE	NC	ND(<1.79)	ND(<0.963)	ND(<0.928)	ND(<1.34)	ND(<0.96)	ND(<1.09)	ND(<1.14)	ND(<1.37)	ND(<0.924)
4,6-Dinitro-2-methylphenc	534-52-1	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
4-Bromophenyl phenyl eth	101-55-3	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
4-Chloro-3-methylphenol	35421-08-0	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
4-Chloroaniline	106-47-8	mg/Kg	2.7	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
4-Chlorophenyl phenyl eth	7005-72-3	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
4-Nitroaniline	100-01-6	mg/Kg	NE	NC	ND(<1.79)	ND(<0.963)	ND(<0.928)	ND(<1.34)	ND(<0.96)	ND(<1.09)	ND(<1.14)	ND(<1.37)	ND(<0.924)
4-Nitrophenol	100-02-7	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Acenaphthene	83-32-9	mg/Kg	4100	NC	0.252	0.237	ND(<0.0746)	ND(<0.108)	0.0396	ND(<0.0875)	ND(<0.092)	ND(<0.11)	ND(<0.0743)
Acenaphthylene	208-96-8	mg/Kg	4200	NC	0.825	0.103	0.2	ND(<0.108)	0.329	0.112	0.126	ND(<0.11)	ND(<0.0743)
Anthracene	120-12-7	mg/Kg	23000	NC	1.09	0.825	0.232	ND(<0.108)	0.483	0.0936	0.107	ND(<0.11)	ND(<0.0743)
Benzo(a)anthracene	56-55-3	mg/Kg	0.21	28.3	1.45	1.7	0.435	ND(<0.108)	0.695	0.199	0.215	0.0598	ND(<0.0743)

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS1C 9/1/2011	SS3A 9/1/2011	SS4C 9/1/2011	SS06A 9/1/2011	SS8B 9/1/2011	SS9A 9/1/2011	SS9A FD 9/1/2011	SS10C 9/1/2011	SS12A 9/1/2011
Benzo(a)pyrene	50-32-8	mg/Kg	0.016	2.87	2.54	1.47	0.613	ND(<0.108)	1.21	0.249	0.254	ND(<0.11)	ND(<0.0743)
Benzo(b)fluoranthene	205-99-2	mg/Kg	0.16	28.7	2.59	1.37	0.911	ND(<0.108)	1.58	0.386	0.361	0.0576	ND(<0.0743)
Benzo(g,h,i)perylene	191-24-2	mg/Kg	1800	NC	2.49	0.72	0.557	ND(<0.108)	1.16	0.187	0.173	ND(<0.11)	ND(<0.0743)
Benzo(k)fluoranthene	207-08-9	mg/Kg	1.6	287	2.85	1.34	0.813	ND(<0.108)	1.64	0.239	0.224	ND(<0.11)	ND(<0.0743)
bis(2-Chloroethoxy)metha	111-91-1	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.768)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
bis(2-Chloroethyl)ether	111-44-4	mg/Kg	0.24	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
bis(2-Chloroisopropyl)ethe	108-60-1	mg/Kg	5.1	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
bis(2-Ethylhexyl)phthalate	117-81-7	mg/Kg	39	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Butyl benzyl phthalate	85-68-7	mg/Kg	290	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Carbazole	86-74-8	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Chrysene	218-01-9	mg/Kg	16	2870	1.88	1.62	0.672	0.0844	0.993	0.289	0.304	0.0647	ND(<0.0743)
Dibenz(a,h)anthracene	53-70-3	mg/Kg	0.016	2.87	0.834	0.294	0.16	ND(<0.108)	0.345	ND(<0.0875)	0.0714	ND(<0.11)	ND(<0.0743)
Dibenzofuran	132-64-9	mg/Kg	78	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Diethyl phthalate	84-66-2	mg/Kg	51000	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Dimethyl phthalate	131-11-3	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Di-n-butyl phthalate	84-74-2	mg/Kg	6300	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	0.209
Di-n-octyl phthalate	117-84-0	mg/Kg	NE	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Fluoranthene	206-44-0	mg/Kg	2400	NC	2.28	3.88	0.62	0.0688	0.708	0.331	0.432	0.116	ND(<0.0743)
Fluorene	86-73-7	mg/Kg	2900	NC	0.249	0.295	ND(<0.0746)	ND(<0.108)	0.0488	ND(<0.0875)	ND(<0.092)	ND(<0.11)	ND(<0.0743)
Hexachlorobenzene	118-74-1	mg/Kg	0.22	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Hexachlorobutadiene	87-68-3	mg/Kg	1.3	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Hexachlorocyclopentadien	77-47-4	mg/Kg	1.9	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Hexachloroethane	67-72-1	mg/Kg	2	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/Kg	0.16	28.7	2.06	0.711	0.472	ND(<0.108)	1.05	0.171	0.152	ND(<0.11)	ND(<0.0743)
Isophorone	78-59-1	mg/Kg	570	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	0.537	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Naphthalene	91-20-3	mg/Kg	4.1	NC	0.34	ND(<0.0775)	0.0609	0.0596	0.124	ND(<0.0875)	0.0467	ND(<0.11)	ND(<0.0743)
Nitrobenzene	98-95-3	mg/Kg	5.5	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
N-Nitroso-di-n-propylamin	621-64-7	mg/Kg	0.078	NC	ND(<1.79)	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
N-Nitrosodiphenylamine	86-30-6	mg/Kg	110	NC	ND(<1.79)	ND(<0.212)	ND(<0.204)	ND(<0.295)	ND(<0.211)	ND(<0.239)	ND(<0.457)	ND(<0.301)	ND(<0.203)
Pentachlorophenol	87-86-5	mg/Kg	1	NC	ND(<1.79)	ND(<0.963)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<1.09)	ND(<1.14)	ND(<1.37)	ND(<0.924)
Phenanthrene	85-01-8	mg/Kg	23000	NC	0.913	3.29	0.144	0.15	0.267	0.114	0.159	ND(<0.11)	ND(<0.0743)
Phenol	108-95-2	mg/Kg	19000	NC	1.79	ND(<0.385)	ND(<0.371)	ND(<0.537)	ND(<0.384)	ND(<0.435)	ND(<0.457)	ND(<0.548)	ND(<0.369)
Pyrene	129-00-0	mg/Kg	2300	NC	2.13	3.34	0.789	0.072	0.922	0.297	0.375	0.104	ND(<0.0743)
Pesticides													
2,4,5-T	93-76-5	mg/Kg	630	NC	NA	NA	NA	NA	NA	0.0375	0.0451	NA	NA
2,4,5-TP (Silvex)	93-72-1	mg/Kg	510	NC	NA	NA	NA	NA	NA	0.0897	0.0232	NA	NA

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS1C 9/1/2011	SS3A 9/1/2011	SS4C 9/1/2011	SS06A 9/1/2011	SS8B 9/1/2011	SS9A 9/1/2011	SS9A FD 9/1/2011	SS10C 9/1/2011	SS12A 9/1/2011
2,4-D	94-75-7	mg/Kg	700	NC	NA	NA	NA	NA	NA	0.0871	0.0912	NA	NA
2,4-DB	94-82-6	mg/Kg	510	NC	NA	NA	NA	NA	NA	0.12	0.0752	NA	NA
Dinoseb	88-85-7	mg/Kg	63	NC	NA	NA	NA	NA	NA	0.0635	0.0912	NA	NA
Pentachlorophenol	87-86-5	mg/Kg	1	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
Aroclor 1016	12674-11-2	mg/Kg	5.5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	11104-28-2	mg/Kg	0.26	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	11141-16-5	mg/Kg	0.22	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	53469-21-9	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	12672-29-6	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	11097-69-1	mg/Kg	0.32	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	11096-82-5	mg/Kg	0.33	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Bold: Indicates concentration is above the WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil (June 2020)

Bold: Indicates concentration is above the Site Spesific Stndard Screening Level for Recreator Soil

1) Human Health Risk Assessment for the Cheat River Trail, Preston County, West Virginia, Risk-Based Remedies, RBR Consulting, Beaver Falls, PA, April 2012, Table 2-2

2) Phase II Environmental Site Assessment Report, Cheat River Trail, ACRES EPA Site ID:113282, Triad Engineering, Inc. 219 Hartman Run Road, Morgantown, WV, November 2011

NC - Not calculated

NA - Not applicable

mg/Kg - Milligrams per kilogram

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS13C 9/1/2011	SS14B 9/1/2011	SS15A 9/1/2011	SS16C 9/2/2011	SS16C FD 9/2/2011	SS17B 9/2/2011	SS18A 9/2/2011	SS19C 9/2/2011	SS21A 9/2/2011
Metals													
Arsenic	7440-38-2	mg/Kg	0.43	16.9	8.28	12.6	12.4	10.2	9.73	16.2	23.8	61.7	ND(<20.9)
Lead	7439-92-1	mg/Kg	400	NC	9.82	20.7	16.6	17.6	18.2	18	19	38.9	ND(<20.9)
SVOCs													
1,2,4-Trichlorobenzene	120-82-1	mg/Kg	24	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
1,2-Dichlorobenzene	95-50-1	mg/Kg	380	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
1,3-Dichlorobenzene	541-73-1	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
1,4-Dichlorobenzene	106-46-7	mg/Kg	2.8	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
1-Methylnaphthalene	90-12-0	mg/Kg	24	NC	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	ND(<0.106)	0.0818	ND(<0.133)	0.116	ND(<0.281)
2,4,5-Trichlorophenol	95-95-4	mg/Kg	6300	NC	ND(<1.06)	ND(<1.26)	ND(<1.37)	ND(<1.38)	ND(<1.32)	ND(<1.13)	ND(<1.65)	ND(<1.11)	ND(<3.49)
2,4,6-Trichlorophenol	88-06-2	mg/Kg	49	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
2,4-Dichlorophenol	120-83-2	mg/Kg	190	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
2,4-Dimethylphenol	105-67-9	mg/Kg	1300	NC	ND(<0.244)	ND(<0.29)	ND(<0.315)	ND(<0.317)	ND(<0.304)	ND(<0.26)	ND(<0.381)	ND(<0.255)	ND(<0.804)
2,4-Dinitrophenol	51-28-5	mg/Kg	130	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
2,4-Dinitrotoluene	121-14-2	mg/Kg	1.7	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
2,6-Dinitrotoluene	606-20-2	mg/Kg	0.36	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
2-Chloronaphthalene	91-58-7	mg/Kg	5000	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
2-Chlorophenol	95-57-8	mg/Kg	340	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
2-Methylnaphthalene	91-57-6	mg/Kg	310	NC	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	0.0549	0.141	0.0688	0.142	ND(<0.281)
2-Methylphenol	95-48-7	mg/Kg	3200	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
2-Nitroaniline	88-74-4	mg/Kg	630	NC	ND(<1.06)	ND(<1.26)	ND(<1.37)	ND(<1.38)	ND(<1.32)	ND(<1.13)	ND(<1.65)	ND(<1.11)	ND(<3.49)
2-Nitrophenol	88-75-5	mg/Kg	NE	NC	ND(<0.454)	ND(<0.296)	ND(<0.321)	ND(<0.324)	ND(<0.31)	ND(<0.266)	ND(<0.389)	ND(<0.261)	ND(<0.821)
3 & 4-Methylphenol	106-44-5	mg/Kg	6300	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
3,3'-Dichlorobenzidine	91-94-1	mg/Kg	1.2	NC	ND(<0.849)	ND(<1.01)	ND(<1.06)	ND(<1.1)	ND(<1.06)	ND(<0.905)	ND(<1.32)	ND(<0.887)	ND(<2.79)
3-Nitroaniline	99-09-2	mg/Kg	NE	NC	ND(<1.06)	ND(<1.26)	ND(<1.37)	ND(<1.38)	ND(<1.32)	ND(<1.13)	ND(<1.65)	ND(<1.11)	ND(<3.49)
4,6-Dinitro-2-methylphenc	534-52-1	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
4-Bromophenyl phenyl eth	101-55-3	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
4-Chloro-3-methylphenol	35421-08-0	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
4-Chloroaniline	106-47-8	mg/Kg	2.7	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
4-Chlorophenyl phenyl eth	7005-72-3	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
4-Nitroaniline	100-01-6	mg/Kg	NE	NC	ND(<1.06)	ND(<1.26)	ND(<1.37)	ND(<1.38)	ND(<1.32)	ND(<1.13)	ND(<1.65)	ND(<1.11)	ND(<3.49)
4-Nitrophenol	100-02-7	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Acenaphthene	83-32-9	mg/Kg	4100	NC	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	ND(<0.106)	0.0945	ND(<0.133)	ND(<0.0891)	ND(<0.281)
Acenaphthylene	208-96-8	mg/Kg	4200	NC	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	ND(<0.106)	1.29	0.112	0.0754	ND(<0.281)
Anthracene	120-12-7	mg/Kg	23000	NC	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	ND(<0.106)	1.3	0.132	0.0856	ND(<0.281)
Benzo(a)anthracene	56-55-3	mg/Kg	0.21	28.3	ND(<0.0852)	ND(<0.101)	0.121	0.0782	0.0987	5.38	ND(<0.133)	0.128	ND(<0.281)

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS13C 9/1/2011	SS14B 9/1/2011	SS15A 9/1/2011	SS16C 9/2/2011	SS16C FD 9/2/2011	SS17B 9/2/2011	SS18A 9/2/2011	SS19C 9/2/2011	SS21A 9/2/2011
Benzo(a)pyrene	50-32-8	mg/Kg	0.016	2.87	0.0573	ND(<0.101)	0.141	0.0787	0.146	8.58	ND(<0.133)	0.15	ND(<0.281)
Benzo(b)fluoranthene	205-99-2	mg/Kg	0.16	28.7	0.084	ND(<0.101)	0.205	0.0782	0.201	11.5	ND(<0.133)	0.217	ND(<0.281)
Benzo(g,h,i)perylene	191-24-2	mg/Kg	1800	NC	ND(<0.0852)	ND(<0.101)	0.088	ND(<0.111)	0.0733	6.22	ND(<0.133)	0.106	ND(<0.281)
Benzo(k)fluoranthene	207-08-9	mg/Kg	1.6	287	0.0564	ND(<0.101)	0.16	0.0633	0.125	NA	ND(<0.133)	0.138	ND(<0.281)
bis(2-Chloroethoxy)metha	111-91-1	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
bis(2-Chloroethyl)ether	111-44-4	mg/Kg	0.24	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
bis(2-Chloroisopropyl)ethe	108-60-1	mg/Kg	5.1	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
bis(2-Ethylhexyl)phthalate	117-81-7	mg/Kg	39	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Butyl benzyl phthalate	85-68-7	mg/Kg	290	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Carbazole	86-74-8	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	0.56	ND(<0.661)	ND(<0.443)	ND(<1.39)
Chrysene	218-01-9	mg/Kg	16	2870	ND(<0.0852)	ND(<0.101)	0.203	0.0754	0.159	7.79	ND(<0.133)	0.181	ND(<0.281)
Dibenz(a,h)anthracene	53-70-3	mg/Kg	0.016	2.87	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	ND(<0.106)	1.3	ND(<0.133)	ND(<0.0891)	ND(<0.281)
Dibenzofuran	132-64-9	mg/Kg	78	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Diethyl phthalate	84-66-2	mg/Kg	51000	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Dimethyl phthalate	131-11-3	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Di-n-butyl phthalate	84-74-2	mg/Kg	6300	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Di-n-octyl phthalate	117-84-0	mg/Kg	NE	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Fluoranthene	206-44-0	mg/Kg	2400	NC	0.0861	0.086	0.273	0.146	0.155	9.5	ND(<0.133)	0.143	ND(<0.281)
Fluorene	86-73-7	mg/Kg	2900	NC	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	ND(<0.106)	0.152	ND(<0.133)	ND(<0.0891)	ND(<0.281)
Hexachlorobenzene	118-74-1	mg/Kg	0.22	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Hexachlorobutadiene	87-68-3	mg/Kg	1.3	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Hexachlorocyclopentadien	77-47-4	mg/Kg	1.9	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Hexachloroethane	67-72-1	mg/Kg	2	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/Kg	0.16	28.7	ND(<0.0852)	ND(<0.101)	0.0852	ND(<0.111)	0.0702	5.68	ND(<0.133)	0.0927	ND(<0.281)
Isophorone	78-59-1	mg/Kg	570	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Naphthalene	91-20-3	mg/Kg	4.1	NC	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	ND(<0.106)	0.186	ND(<0.133)	0.0865	ND(<0.281)
Nitrobenzene	98-95-3	mg/Kg	5.5	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
N-Nitroso-di-n-propylamin	621-64-7	mg/Kg	0.078	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
N-Nitrosodiphenylamine	86-30-6	mg/Kg	110	NC	ND(<0.233)	ND(<0.276)	ND(<0.3)	ND(<0.302)	ND(<0.29)	ND(<0.248)	ND(<0.363)	ND(<0.243)	ND(<1.3967)
Pentachlorophenol	87-86-5	mg/Kg	1	NC	ND(<1.06)	ND(<1.26)	ND(<1.37)	ND(<1.38)	ND(<1.32)	ND(<1.13)	ND(<1.65)	ND(<1.11)	ND(<3.49)
Phenanthrene	85-01-8	mg/Kg	23000	NC	ND(<0.0852)	ND(<0.101)	ND(<0.11)	ND(<0.111)	ND(<0.106)	0.934	0.0708	0.119	ND(<0.281)
Phenol	108-95-2	mg/Kg	19000	NC	ND(<0.424)	ND(<0.503)	ND(<0.546)	ND(<0.55)	ND(<0.527)	ND(<0.452)	ND(<0.661)	ND(<0.443)	ND(<1.39)
Pyrene	129-00-0	mg/Kg	2300	NC	0.0785	0.0669	0.215	0.121	0.142	9.13	ND(<0.133)	0.168	ND(<0.281)
Pesticides													
2,4,5-T	93-76-5	mg/Kg	630	NC	NA	NA	NA	0.0551	0.0538	NA	NA	NA	NA
2,4,5-TP (Silvex)	93-72-1	mg/Kg	510	NC	NA	NA	NA	0.0284	0.0277	NA	NA	NA	NA

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS13C 9/1/2011	SS14B 9/1/2011	SS15A 9/1/2011	SS16C 9/2/2011	SS16C FD 9/2/2011	SS17B 9/2/2011	SS18A 9/2/2011	SS19C 9/2/2011	SS21A 9/2/2011
2,4-D	94-75-7	mg/Kg	700	NC	NA	NA	NA	0.111	0.109	NA	NA	NA	NA
2,4-DB	94-82-6	mg/Kg	510	NC	NA	NA	NA	0.111	0.109	NA	NA	NA	NA
Dinoseb	88-85-7	mg/Kg	63	NC	NA	NA	NA	0.111	0.109	NA	NA	NA	NA
Pentachlorophenol	87-86-5	mg/Kg	1	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
Aroclor 1016	12674-11-2	mg/Kg	5.5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	11104-28-2	mg/Kg	0.26	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	11141-16-5	mg/Kg	0.22	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	53469-21-9	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	12672-29-6	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	11097-69-1	mg/Kg	0.32	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	11096-82-5	mg/Kg	0.33	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Bold: Indicates concentration is above the WVDEP 60CSR3 Table 60-3B De Minimis Screening Lev

Bold: Indicates concentration is above the Site Spesific Stndard Screening Level for Recreator Soil

1) Human Health Risk Assessment for the Cheat River Trail, Preston County, West Virginia, Risk-B

2) Phase II Environmental Site Assessment Report, Cheat River Trail, ACRES EPA Site ID:113282, T

NC - Not calculated

NA - Not applicable

mg/Kg - Milligrams per kilogram

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS1D 9/2/2011	SS24A 9/2/2011	SS25C 9/2/2011	SS27A 9/2/2011	SS28C 9/2/2011	SS30A 9/2/2011	SS33A 9/2/2011	SS34C 9/2/2011	SS35B 9/2/2011
Metals													
Arsenic	7440-38-2	mg/Kg	0.43	16.9	25	8.82	6.11	7.36	62.9	23.1	13.1	7.01	6.31
Lead	7439-92-1	mg/Kg	400	NC	35.5	23.3	16.6	19.1	19.8	16.8	25.2	14.2	24.7
SVOCs													
1,2,4-Trichlorobenzene	120-82-1	mg/Kg	24	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
1,2-Dichlorobenzene	95-50-1	mg/Kg	380	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
1,3-Dichlorobenzene	541-73-1	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
1,4-Dichlorobenzene	106-46-7	mg/Kg	2.8	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
1-Methylnaphthalene	90-12-0	mg/Kg	24	NC	0.163	ND(<0.167)	ND(<0.0809)	ND(<0.082)	0.0522	ND(<0.134)	ND(<0.203)	ND(<0.0923)	ND(<0.132)
2,4,5-Trichlorophenol	95-95-4	mg/Kg	6300	NC	ND(<1.25)	ND(<2.08)	ND(<1.01)	ND(<1.02)	ND(<1.06)	ND(<1.67)	ND(<2.52)	ND(<1.15)	ND(<1.64)
2,4,6-Trichlorophenol	88-06-2	mg/Kg	49	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
2,4-Dichlorophenol	120-83-2	mg/Kg	190	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
2,4-Dimethylphenol	105-67-9	mg/Kg	1300	NC	ND(<0.288)	ND(<0.479)	ND(<0.232)	ND(<0.235)	ND(<0.244)	ND(<0.666)	ND(<0.582)	ND(<0.264)	ND(<0.655)
2,4-Dinitrophenol	51-28-5	mg/Kg	130	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
2,4-Dinitrotoluene	121-14-2	mg/Kg	1.7	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
2,6-Dinitrotoluene	606-20-2	mg/Kg	0.36	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
2-Chloronaphthalene	91-58-7	mg/Kg	5000	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
2-Chlorophenol	95-57-8	mg/Kg	340	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
2-Methylnaphthalene	91-57-6	mg/Kg	310	NC	0.185	ND(<0.167)	ND(<0.0809)	ND(<0.082)	0.0586	ND(<0.134)	ND(<0.203)	ND(<0.0923)	0.0938
2-Methylphenol	95-48-7	mg/Kg	3200	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
2-Nitroaniline	88-74-4	mg/Kg	630	NC	ND(<1.25)	ND(<2.08)	ND(<1.01)	ND(<1.02)	ND(<1.06)	ND(<1.67)	ND(<2.52)	ND(<1.15)	ND(<1.64)
2-Nitrophenol	88-75-5	mg/Kg	NE	NC	ND(<0.294)	ND(<0.488)	ND(<0.237)	ND(<0.24)	ND(<0.25)	ND(<0.666)	ND(<0.594)	ND(<0.459)	ND(<0.655)
3 & 4-Methylphenol	106-44-5	mg/Kg	6300	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
3,3'-Dichlorobenzidine	91-94-1	mg/Kg	1.2	NC	ND(<1)	ND(<1.66)	ND(<0.402)	ND(<0.816)	ND(<0.849)	ND(<1.33)	ND(<2.02)	ND(<0.919)	ND(<1.31)
3-Nitroaniline	99-09-2	mg/Kg	NE	NC	ND(<1.25)	ND(<2.08)	ND(<1.01)	ND(<1.02)	ND(<1.06)	ND(<1.67)	ND(<2.52)	ND(<1.15)	ND(<1.64)
4,6-Dinitro-2-methylphenc	534-52-1	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
4-Bromophenyl phenyl eth	101-55-3	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
4-Chloro-3-methylphenol	35421-08-0	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
4-Chloroaniline	106-47-8	mg/Kg	2.7	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
4-Chlorophenyl phenyl eth	7005-72-3	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
4-Nitroaniline	100-01-6	mg/Kg	NE	NC	ND(<1.25)	ND(<2.08)	ND(<1.01)	ND(<1.02)	ND(<1.06)	ND(<1.67)	ND(<2.52)	ND(<1.15)	ND(<1.64)
4-Nitrophenol	100-02-7	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Acenaphthene	83-32-9	mg/Kg	4100	NC	ND(<0.101)	ND(<0.167)	ND(<0.0809)	ND(<0.082)	ND(<0.0853)	ND(<0.134)	ND(<0.203)	ND(<0.0923)	ND(<0.132)
Acenaphthylene	208-96-8	mg/Kg	4200	NC	0.0685	0.133	ND(<0.0809)	ND(<0.082)	0.0594	0.251	1.72	ND(<0.0923)	0.196
Anthracene	120-12-7	mg/Kg	23000	NC	ND(<0.101)	0.12	ND(<0.0809)	ND(<0.082)	0.0964	0.275	2.23	ND(<0.0923)	0.195
Benzo(a)anthracene	56-55-3	mg/Kg	0.21	28.3	0.141	0.414	ND(<0.0809)	ND(<0.082)	0.0789	1.26	8.99	0.0551	0.447

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS1D 9/2/2011	SS24A 9/2/2011	SS25C 9/2/2011	SS27A 9/2/2011	SS28C 9/2/2011	SS30A 9/2/2011	SS33A 9/2/2011	SS34C 9/2/2011	SS35B 9/2/2011
Benzo(a)pyrene	50-32-8	mg/Kg	0.016	2.87	0.144	0.5	ND(<0.0809)	ND(<0.082)	0.111	0.899	7.17	0.0528	0.569
Benzo(b)fluoranthene	205-99-2	mg/Kg	0.16	28.7	0.172	0.709	ND(<0.0809)	ND(<0.082)	0.252	1.65	15	0.0859	0.693
Benzo(g,h,i)perylene	191-24-2	mg/Kg	1800	NC	0.075	0.268	ND(<0.0809)	ND(<0.082)	0.147	0.51	2.98	ND(<0.0923)	0.316
Benzo(k)fluoranthene	207-08-9	mg/Kg	1.6	287	0.114	0.459	ND(<0.0809)	ND(<0.082)	0.0955	0.883	7.58	ND(<0.0923)	0.46
bis(2-Chloroethoxy)metha	111-91-1	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
bis(2-Chloroethyl)ether	111-44-4	mg/Kg	0.24	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
bis(2-Chloroisopropyl)ethe	108-60-1	mg/Kg	5.1	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
bis(2-Ethylhexyl)phthalate	117-81-7	mg/Kg	39	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Butyl benzyl phthalate	85-68-7	mg/Kg	290	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Carbazole	86-74-8	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	2.17	ND(<0.459)	ND(<0.655)
Chrysene	218-01-9	mg/Kg	16	2870	0.189	0.559	ND(<0.0809)	ND(<0.082)	0.135	1.6	17.1	0.0937	0.487
Dibenz(a,h)anthracene	53-70-3	mg/Kg	0.016	2.87	ND(<0.101)	0.11	ND(<0.0809)	ND(<0.082)	ND(<0.0853)	0.201	1.28	ND(<0.0923)	0.12
Dibenzofuran	132-64-9	mg/Kg	78	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Diethyl phthalate	84-66-2	mg/Kg	51000	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Dimethyl phthalate	131-11-3	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Di-n-butyl phthalate	84-74-2	mg/Kg	6300	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Di-n-octyl phthalate	117-84-0	mg/Kg	NE	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Fluoranthene	206-44-0	mg/Kg	2400	NC	0.18	0.4	ND(<0.0809)	ND(<0.082)	0.135	3.31	33.3	0.122	0.616
Fluorene	86-73-7	mg/Kg	2900	NC	ND(<0.101)	ND(<0.167)	ND(<0.0809)	ND(<0.082)	ND(<0.0853)	0.068	0.288	ND(<0.0923)	ND(<0.132)
Hexachlorobenzene	118-74-1	mg/Kg	0.22	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Hexachlorobutadiene	87-68-3	mg/Kg	1.3	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Hexachlorocyclopentadien	77-47-4	mg/Kg	1.9	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Hexachloroethane	67-72-1	mg/Kg	2	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/Kg	0.16	28.7	0.068	0.3	ND(<0.0809)	ND(<0.082)	0.116	0.52	3.29	ND(<0.0923)	0.31
Isophorone	78-59-1	mg/Kg	570	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Naphthalene	91-20-3	mg/Kg	4.1	NC	0.106	ND(<0.167)	ND(<0.0809)	ND(<0.082)	0.0467	ND(<0.134)	ND(<0.203)	ND(<0.0923)	ND(<0.132)
Nitrobenzene	98-95-3	mg/Kg	5.5	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
N-Nitroso-di-n-propylamin	621-64-7	mg/Kg	0.078	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
N-Nitrosodiphenylamine	86-30-6	mg/Kg	110	NC	ND(<0.275)	ND(<0.456)	ND(<0.221)	ND(<0.224)	ND(<0.233)	ND(<0.366)	ND(<0.554)	ND(<0.459)	ND(<0.655)
Pentachlorophenol	87-86-5	mg/Kg	1	NC	ND(<1.25)	ND(<2.08)	ND(<1.01)	ND(<1.02)	ND(<1.06)	ND(<1.67)	ND(<2.52)	ND(<1.15)	ND(<1.64)
Phenanthrene	85-01-8	mg/Kg	23000	NC	ND(<0.101)	ND(<0.167)	ND(<0.0809)	ND(<0.082)	0.0874	0.265	0.873	ND(<0.0923)	0.121
Phenol	108-95-2	mg/Kg	19000	NC	ND(<0.5)	ND(<0.83)	ND(<0.402)	ND(<0.407)	ND(<0.424)	ND(<0.666)	ND(<1.01)	ND(<0.459)	ND(<0.655)
Pyrene	129-00-0	mg/Kg	2300	NC	0.216	0.433	ND(<0.0809)	ND(<0.082)	0.113	2.55	31	0.114	0.635
Pesticides													
2,4,5-T	93-76-5	mg/Kg	630	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	93-72-1	mg/Kg	510	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS1D 9/2/2011	SS24A 9/2/2011	SS25C 9/2/2011	SS27A 9/2/2011	SS28C 9/2/2011	SS30A 9/2/2011	SS33A 9/2/2011	SS34C 9/2/2011	SS35B 9/2/2011
2,4-D	94-75-7	mg/Kg	700	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DB	94-82-6	mg/Kg	510	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	88-85-7	mg/Kg	63	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	mg/Kg	1	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
Aroclor 1016	12674-11-2	mg/Kg	5.5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	11104-28-2	mg/Kg	0.26	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	11141-16-5	mg/Kg	0.22	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	53469-21-9	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	12672-29-6	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	11097-69-1	mg/Kg	0.32	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	11096-82-5	mg/Kg	0.33	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Bold: Indicates concentration is above the WVDEP 60CSR3 Table 60-3B De Minimis Screening Lev

Bold: Indicates concentration is above the Site Spesific Stndard Screening Level for Recreator Soil

1) Human Health Risk Assessment for the Cheat River Trail, Preston County, West Virginia, Risk-B

2) Phase II Environmental Site Assessment Report, Cheat River Trail, ACRES EPA Site ID:113282, T

NC - Not calculated

NA - Not applicable

mg/Kg - Milligrams per kilogram

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS36A 9/2/2011	SS37C 9/2/2011	SS2D 9/2/2011	SS3D 9/2/2011	SS39A 9/2/2011	SS40C 9/2/2011	SS42A 9/2/2011	SS43C 9/2/2011	SS4D 9/2/2011
Metals													
Arsenic	7440-38-2	mg/Kg	0.43	16.9	5.41	4.29	4.88	15.7	23.8	9.98	9.92	13.9	8.41
Lead	7439-92-1	mg/Kg	400	NC	16.2	12.4	9.31	44.7	17.9	22.3	12.2	22	13
SVOCs													
1,2,4-Trichlorobenzene	120-82-1	mg/Kg	24	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
1,2-Dichlorobenzene	95-50-1	mg/Kg	380	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
1,3-Dichlorobenzene	541-73-1	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
1,4-Dichlorobenzene	106-46-7	mg/Kg	2.8	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
1-Methylnaphthalene	90-12-0	mg/Kg	24	NC	ND(<0.0913)	ND(<0.0854)	ND(<0.102)	0.053	ND(<0.0833)	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	ND(<0.0806)
2,4,5-Trichlorophenol	95-95-4	mg/Kg	6300	NC	ND(<1.13)	ND(<1.06)	ND(<1.27)	ND(<0.947)	ND(<1.04)	ND(<1.01)	ND(<1.66)	ND(<1.04)	ND(<1.08)
2,4,6-Trichlorophenol	88-06-2	mg/Kg	49	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
2,4-Dichlorophenol	120-83-2	mg/Kg	190	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
2,4-Dimethylphenol	105-67-9	mg/Kg	1300	NC	ND(<0.454)	ND(<0.245)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.416)	ND(<0.43)
2,4-Dinitrophenol	51-28-5	mg/Kg	130	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
2,4-Dinitrotoluene	121-14-2	mg/Kg	1.7	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
2,6-Dinitrotoluene	606-20-2	mg/Kg	0.36	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
2-Chloronaphthalene	91-58-7	mg/Kg	5000	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
2-Chlorophenol	95-57-8	mg/Kg	340	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
2-Methylnaphthalene	91-57-6	mg/Kg	310	NC	ND(<0.0913)	ND(<0.0854)	ND(<0.102)	0.0527	ND(<0.0833)	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	ND(<0.0806)
2-Methylphenol	95-48-7	mg/Kg	3200	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
2-Nitroaniline	88-74-4	mg/Kg	630	NC	ND(<1.13)	ND(<1.06)	ND(<1.27)	ND(<0.947)	ND(<1.04)	ND(<1.01)	ND(<1.66)	ND(<1.04)	ND(<1.08)
2-Nitrophenol	88-75-5	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.4165)	ND(<0.43)
3 & 4-Methylphenol	106-44-5	mg/Kg	6300	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
3,3'-Dichlorobenzidine	91-94-1	mg/Kg	1.2	NC	ND(<0.909)	ND(<0.85)	ND(<1.02)	ND(<0.758)	ND(<0.829)	ND(<0.808)	ND(<1.33)	ND(<0.833)	ND(<0.862)
3-Nitroaniline	99-09-2	mg/Kg	NE	NC	ND(<1.13)	ND(<1.06)	ND(<1.27)	ND(<0.947)	ND(<1.04)	ND(<0.404)	ND(<1.66)	ND(<1.04)	ND(<1.08)
4,6-Dinitro-2-methylphenc	534-52-1	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
4-Bromophenyl phenyl eth	101-55-3	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
4-Chloro-3-methylphenol	35421-08-0	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
4-Chloroaniline	106-47-8	mg/Kg	2.7	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
4-Chlorophenyl phenyl eth	7005-72-3	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
4-Nitroaniline	100-01-6	mg/Kg	NE	NC	ND(<1.13)	ND(<1.06)	ND(<1.27)	ND(<0.947)	ND(<1.04)	ND(<1.01)	ND(<1.66)	ND(<1.04)	ND(<1.08)
4-Nitrophenol	100-02-7	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Acenaphthene	83-32-9	mg/Kg	4100	NC	ND(<0.0913)	ND(<0.0854)	ND(<0.102)	ND(<0.0761)	ND(<0.0833)	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	ND(<0.0806)
Acenaphthylene	208-96-8	mg/Kg	4200	NC	0.0481	0.244	0.635	0.0618	0.181	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	0.393
Anthracene	120-12-7	mg/Kg	23000	NC	ND(<0.0913)	0.237	0.736	0.0549	0.192	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	0.285
Benzo(a)anthracene	56-55-3	mg/Kg	0.21	28.3	0.26	0.427	2.39	0.102	0.749	ND(<0.0812)	ND(<0.134)	0.0837	0.502

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS36A 9/2/2011	SS37C 9/2/2011	SS2D 9/2/2011	SS3D 9/2/2011	SS39A 9/2/2011	SS40C 9/2/2011	SS42A 9/2/2011	SS43C 9/2/2011	SS4D 9/2/2011
Benzo(a)pyrene	50-32-8	mg/Kg	0.016	2.87	0.25	0.347	1.67	0.094	0.687	ND(<0.0812)	ND(<0.134)	0.1	0.421
Benzo(b)fluoranthene	205-99-2	mg/Kg	0.16	28.7	0.251	0.678	2.85	0.184	0.982	0.0699	ND(<0.134)	0.139	0.543
Benzo(g,h,i)perylene	191-24-2	mg/Kg	1800	NC	0.133	0.268	0.975	0.0568	0.373	ND(<0.0812)	ND(<0.134)	0.0591	0.199
Benzo(k)fluoranthene	207-08-9	mg/Kg	1.6	287	0.155	0.618	2.11	0.0837	0.927	ND(<0.0812)	ND(<0.134)	0.0991	0.476
bis(2-Chloroethoxy)metha	111-91-1	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
bis(2-Chloroethyl)ether	111-44-4	mg/Kg	0.24	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
bis(2-Chloroisopropyl)ethe	108-60-1	mg/Kg	5.1	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
bis(2-Ethylhexyl)phthalate	117-81-7	mg/Kg	39	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	0.227	ND(<0.43)
Butyl benzyl phthalate	85-68-7	mg/Kg	290	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Carbazole	86-74-8	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Chrysene	218-01-9	mg/Kg	16	2870	0.253	0.77	2.97	0.156	1.06	ND(<0.0812)	ND(<0.134)	0.128	0.69
Dibenz(a,h)anthracene	53-70-3	mg/Kg	0.016	2.87	0.0468	0.0952	0.392	ND(<0.0761)	0.161	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	0.0922
Dibenzofuran	132-64-9	mg/Kg	78	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Diethyl phthalate	84-66-2	mg/Kg	51000	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Dimethyl phthalate	131-11-3	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Di-n-butyl phthalate	84-74-2	mg/Kg	6300	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Di-n-octyl phthalate	117-84-0	mg/Kg	NE	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Fluoranthene	206-44-0	mg/Kg	2400	NC	0.447	1.75	3.32	0.168	0.83	0.059	ND(<0.134)	0.168	0.874
Fluorene	86-73-7	mg/Kg	2900	NC	ND(<0.0913)	ND(<0.0854)	0.0814	ND(<0.0761)	ND(<0.0833)	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	ND(<0.0806)
Hexachlorobenzene	118-74-1	mg/Kg	0.22	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Hexachlorobutadiene	87-68-3	mg/Kg	1.3	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Hexachlorocyclopentadien	77-47-4	mg/Kg	1.9	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Hexachloroethane	67-72-1	mg/Kg	2	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/Kg	0.16	28.7	0.132	0.281	1.04	0.0519	0.397	ND(<0.0812)	ND(<0.134)	0.0558	0.205
Isophorone	78-59-1	mg/Kg	570	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Naphthalene	91-20-3	mg/Kg	4.1	NC	ND(<0.0913)	ND(<0.0854)	ND(<0.102)	ND(<0.0761)	ND(<0.0833)	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	ND(<0.0806)
Nitrobenzene	98-95-3	mg/Kg	5.5	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
N-Nitroso-di-n-propylamin	621-64-7	mg/Kg	0.078	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
N-Nitrosodiphenylamine	86-30-6	mg/Kg	110	NC	ND(<0.454)	ND(<0.425)	ND(<0.508)	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.416)	ND(<0.43)
Pentachlorophenol	87-86-5	mg/Kg	1	NC	ND(<1.13)	ND(<1.06)	ND(<1.27)	ND(<0.947)	ND(<1.04)	ND(<1.01)	ND(<1.66)	ND(<1.04)	ND(<1.08)
Phenanthrene	85-01-8	mg/Kg	23000	NC	ND(<0.0913)	0.457	0.285	0.089	0.0978	ND(<0.0812)	ND(<0.134)	ND(<0.0837)	0.0848
Phenol	108-95-2	mg/Kg	19000	NC	ND(<0.454)	ND(<0.425)	0.542	ND(<0.378)	ND(<0.414)	ND(<0.404)	ND(<0.665)	ND(<0.209)	ND(<0.43)
Pyrene	129-00-0	mg/Kg	2300	NC	0.393	1.14	3.46	0.177	0.954	0.0533	ND(<0.134)	0.147	0.971
Pesticides													
2,4,5-T	93-76-5	mg/Kg	630	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	93-72-1	mg/Kg	510	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS36A 9/2/2011	SS37C 9/2/2011	SS2D 9/2/2011	SS3D 9/2/2011	SS39A 9/2/2011	SS40C 9/2/2011	SS42A 9/2/2011	SS43C 9/2/2011	SS4D 9/2/2011
2,4-D	94-75-7	mg/Kg	700	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-DB	94-82-6	mg/Kg	510	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	88-85-7	mg/Kg	63	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	mg/Kg	1	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
Aroclor 1016	12674-11-2	mg/Kg	5.5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	11104-28-2	mg/Kg	0.26	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	11141-16-5	mg/Kg	0.22	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	53469-21-9	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	12672-29-6	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	11097-69-1	mg/Kg	0.32	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	11096-82-5	mg/Kg	0.33	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Bold: Indicates concentration is above the WVDEP 60CSR3 Table 60-3B De Minimis Screening Lev

Bold: Indicates concentration is above the Site Spesific Stndard Screening Level for Recreator Soil

1) Human Health Risk Assessment for the Cheat River Trail, Preston County, West Virginia, Risk-B

2) Phase II Environmental Site Assessment Report, Cheat River Trail, ACRES EPA Site ID:113282, T

NC - Not calculated

NA - Not applicable

mg/Kg - Milligrams per kilogram

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS45A 9/2/2011	SS46C 9/2/2011	SS47B 9/2/2011	SS48A 9/2/2011	SS5D 9/2/2011	SS51A 9/2/2011	SS6D 9/2/2011	SS53B 9/8/2011	SS54A 9/8/2011
Metals													
Arsenic	7440-38-2	mg/Kg	0.43	16.9	5.94	ND(<17.1)	10.3	52.8	7.18	29.1	11.1	10.4	107
Lead	7439-92-1	mg/Kg	400	NC	18.3	ND(<40.4)	13.6	31	16.3	49.5	25.2	8.64	46
SVOCs													
1,2,4-Trichlorobenzene	120-82-1	mg/Kg	24	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
1,2-Dichlorobenzene	95-50-1	mg/Kg	380	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
1,3-Dichlorobenzene	541-73-1	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
1,4-Dichlorobenzene	106-46-7	mg/Kg	2.8	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
1-Methylnaphthalene	90-12-0	mg/Kg	24	NC	ND(<0.0861)	0.0857	ND(<0.0711)	ND(<0.149)	ND(<0.0809)	ND(<0.0924)	0.258	0.387	0.179
2,4,5-Trichlorophenol	95-95-4	mg/Kg	6300	NC	ND(<1.07)	ND(<1.07)	ND(<1.08)	ND(<1.86)	ND(<1.01)	ND(<1.15)	ND(<1.2)	ND(<0.979)	ND(<1.14)
2,4,6-Trichlorophenol	88-06-2	mg/Kg	49	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2,4-Dichlorophenol	120-83-2	mg/Kg	190	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2,4-Dimethylphenol	105-67-9	mg/Kg	1300	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2,4-Dinitrophenol	51-28-5	mg/Kg	130	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2,4-Dinitrotoluene	121-14-2	mg/Kg	1.7	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2,6-Dinitrotoluene	606-20-2	mg/Kg	0.36	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2-Chloronaphthalene	91-58-7	mg/Kg	5000	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2-Chlorophenol	95-57-8	mg/Kg	340	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2-Methylnaphthalene	91-57-6	mg/Kg	310	NC	ND(<0.0861)	0.0947	ND(<0.114)	0.103	ND(<0.0809)	ND(<0.0924)	0.478	0.635	0.191
2-Methylphenol	95-48-7	mg/Kg	3200	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
2-Nitroaniline	88-74-4	mg/Kg	630	NC	ND(<1.07)	ND(<1.07)	ND(<1.08)	ND(<1.86)	ND(<1.01)	ND(<1.15)	ND(<1.2)	ND(<0.979)	ND(<1.14)
2-Nitrophenol	88-75-5	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	ND(<0.4335)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
3 & 4-Methylphenol	106-44-5	mg/Kg	6300	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
3,3'-Dichlorobenzidine	91-94-1	mg/Kg	1.2	NC	ND(<0.857)	ND(<0.858)	ND(<0.867)	ND(<1.49)	ND(<0.805)	ND(<0.92)	ND(<0.963)	ND(<0.784)	ND(<0.911)
3-Nitroaniline	99-09-2	mg/Kg	NE	NC	ND(<1.07)	ND(<1.07)	ND(<1.08)	ND(<1.86)	ND(<1.01)	ND(<1.15)	ND(<1.2)	ND(<0.979)	ND(<1.14)
4,6-Dinitro-2-methylphenc	534-52-1	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
4-Bromophenyl phenyl eth	101-55-3	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
4-Chloro-3-methylphenol	35421-08-0	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
4-Chloroaniline	106-47-8	mg/Kg	2.7	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
4-Chlorophenyl phenyl eth	7005-72-3	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
4-Nitroaniline	100-01-6	mg/Kg	NE	NC	ND(<1.07)	ND(<1.07)	1.08	ND(<1.86)	ND(<1.01)	ND(<1.15)	ND(<1.2)	ND(<0.979)	ND(<1.14)
4-Nitrophenol	100-02-7	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Acenaphthene	83-32-9	mg/Kg	4100	NC	ND(<0.0861)	ND(<0.0862)	0.113	0.0803	ND(<0.0809)	ND(<0.0924)	0.216	0.225	ND(<0.0915)
Acenaphthylene	208-96-8	mg/Kg	4200	NC	ND(<0.0861)	0.111	0.318	0.869	0.0415	ND(<0.0924)	0.631	0.0941	0.494
Anthracene	120-12-7	mg/Kg	23000	NC	ND(<0.0861)	0.0832	0.375	0.911	0.0439	ND(<0.0924)	0.74	0.265	0.443
Benzo(a)anthracene	56-55-3	mg/Kg	0.21	28.3	ND(<0.0861)	0.174	ND(<0.736)	2.48	0.0733	0.051	1.42	0.421	0.503

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS45A 9/2/2011	SS46C 9/2/2011	SS47B 9/2/2011	SS48A 9/2/2011	SS5D 9/2/2011	SS51A 9/2/2011	SS6D 9/2/2011	SS53B 9/8/2011	SS54A 9/8/2011
Benzo(a)pyrene	50-32-8	mg/Kg	0.016	2.87	ND(<0.0861)	0.168	ND(<0.927)	2.54	0.0773	0.0496	1.55	0.434	0.649
Benzo(b)fluoranthene	205-99-2	mg/Kg	0.16	28.7	ND(<0.0861)	0.214	ND(<1.36)	3.25	0.123	0.103	2.84	0.776	1.29
Benzo(g,h,i)perylene	191-24-2	mg/Kg	1800	NC	ND(<0.0861)	0.0939	ND(<0.598)	1.4	0.0632	ND(<0.0924)	1	0.27	0.481
Benzo(k)fluoranthene	207-08-9	mg/Kg	1.6	287	ND(<0.0861)	0.14	ND(<0.938)	2.79	0.0914	0.0836	1.95	0.484	0.642
bis(2-Chloroethoxy)metha	111-91-1	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
bis(2-Chloroethyl)ether	111-44-4	mg/Kg	0.24	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
bis(2-Chloroisopropyl)ethe	108-60-1	mg/Kg	5.1	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
bis(2-Ethylhexyl)phthalate	117-81-7	mg/Kg	39	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	2.83	ND(<0.392)	ND(<0.455)
Butyl benzyl phthalate	85-68-7	mg/Kg	290	NC	ND(<0.428)	ND(<0.428)	0.433	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Carbazole	86-74-8	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Chrysene	218-01-9	mg/Kg	16	2870	ND(<0.0861)	0.229	1.11	3.05	0.101	0.133	2.05	0.636	0.888
Dibenz(a,h)anthracene	53-70-3	mg/Kg	0.016	2.87	ND(<0.0861)	ND(<0.0862)	0.232	0.558	ND(<0.0809)	ND(<0.0924)	0.417	0.121	0.23
Dibenzofuran	132-64-9	mg/Kg	78	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	0.597	0.579	ND(<0.455)
Diethyl phthalate	84-66-2	mg/Kg	51000	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Dimethyl phthalate	131-11-3	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Di-n-butyl phthalate	84-74-2	mg/Kg	6300	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Di-n-octyl phthalate	117-84-0	mg/Kg	NE	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Fluoranthene	206-44-0	mg/Kg	2400	NC	ND(<0.0861)	0.268	1.45	2.98	0.139	0.0657	2.27	0.917	0.678
Fluorene	86-73-7	mg/Kg	2900	NC	ND(<0.0861)	ND(<0.0862)	0.102	0.137	ND(<0.0809)	ND(<0.0924)	0.222	0.147	0.0615
Hexachlorobenzene	118-74-1	mg/Kg	0.22	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Hexachlorobutadiene	87-68-3	mg/Kg	1.3	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Hexachlorocyclopentadien	77-47-4	mg/Kg	1.9	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Hexachloroethane	67-72-1	mg/Kg	2	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/Kg	0.16	28.7	ND(<0.0861)	0.0845	0.617	1.42	0.0604	ND(<0.0924)	1.11	0.281	0.503
Isophorone	78-59-1	mg/Kg	570	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Naphthalene	91-20-3	mg/Kg	4.1	NC	ND(<0.0861)	0.0592	0.137	0.123	ND(<0.0809)	ND(<0.0924)	0.815	0.515	0.163
Nitrobenzene	98-95-3	mg/Kg	5.5	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
N-Nitroso-di-n-propylamin	621-64-7	mg/Kg	0.078	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
N-Nitrosodiphenylamine	86-30-6	mg/Kg	110	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Pentachlorophenol	87-86-5	mg/Kg	1	NC	ND(<1.07)	ND(<1.07)	ND(<1.08)	ND(<1.86)	ND(<1.01)	ND(<1.15)	ND(<1.2)	ND(<0.979)	ND(<1.14)
Phenanthrene	85-01-8	mg/Kg	23000	NC	ND(<0.0861)	0.144	0.368	0.445	0.0439	ND(<0.0924)	1.36	0.852	0.376
Phenol	108-95-2	mg/Kg	19000	NC	ND(<0.428)	ND(<0.428)	ND(<0.433)	ND(<0.743)	ND(<0.402)	ND(<0.459)	ND(<0.481)	ND(<0.392)	ND(<0.455)
Pyrene	129-00-0	mg/Kg	2300	NC	ND(<0.0861)	ND(<0.0862)	1.32	2.98	0.111	0.0579	2.03	0.779	0.967
Pesticides													
2,4,5-T	93-76-5	mg/Kg	630	NC	0.0428	NA	0.043	NA	NA	NA	NA	NA	NA
2,4,5-TP (Silvex)	93-72-1	mg/Kg	510	NC	0.022	NA	0.0222	NA	NA	NA	NA	NA	NA

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS45A 9/2/2011	SS46C 9/2/2011	SS47B 9/2/2011	SS48A 9/2/2011	SS5D 9/2/2011	SS51A 9/2/2011	SS6D 9/2/2011	SS53B 9/8/2011	SS54A 9/8/2011
2,4-D	94-75-7	mg/Kg	700	NC	0.0865	NA	0.087	NA	NA	NA	NA	NA	NA
2,4-DB	94-82-6	mg/Kg	510	NC	0.0865	NA	0.087	NA	NA	NA	NA	NA	NA
Dinoseb	88-85-7	mg/Kg	63	NC	0.0865	NA	0.087	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	mg/Kg	1	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs													
Aroclor 1016	12674-11-2	mg/Kg	5.5	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1221	11104-28-2	mg/Kg	0.26	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1232	11141-16-5	mg/Kg	0.22	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1242	53469-21-9	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1248	12672-29-6	mg/Kg	0.31	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1254	11097-69-1	mg/Kg	0.32	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1260	11096-82-5	mg/Kg	0.33	NC	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Bold: Indicates concentration is above the WVDEP 60CSR3 Table 60-3B De Minimis Screening Lev

Bold: Indicates concentration is above the Site Spesific Stndard Screening Level for Recreator Soil

1) Human Health Risk Assessment for the Cheat River Trail, Preston County, West Virginia, Risk-B

2) Phase II Environmental Site Assessment Report, Cheat River Trail, ACRES EPA Site ID:113282, T

NC - Not calculated

NA - Not applicable

mg/Kg - Milligrams per kilogram

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS55C 9/8/2011	SS56B 9/8/2011	SS60A 9/8/2011	SSIP 9/8/2011	SS57A 9/8/2011	SS57A FD 9/8/2011
Metals										
Arsenic	7440-38-2	mg/Kg	0.43	16.9	10.4	16.8	12.1	NA	21.8	19.9
Lead	7439-92-1	mg/Kg	400	NC	17.9	33.8	25.3	NA	20.6	23.5
SVOCs										
1,2,4-Trichlorobenzene	120-82-1	mg/Kg	24	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
1,2-Dichlorobenzene	95-50-1	mg/Kg	380	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
1,3-Dichlorobenzene	541-73-1	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
1,4-Dichlorobenzene	106-46-7	mg/Kg	2.8	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
1-Methylnaphthalene	90-12-0	mg/Kg	24	NC	ND(<0.0846)	0.165	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
2,4,5-Trichlorophenol	95-95-4	mg/Kg	6300	NC	ND(<1.05)	ND(<1.11)	ND(<1.14)	NA	ND(<1.11)	ND(<1.28)
2,4,6-Trichlorophenol	88-06-2	mg/Kg	49	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2,4-Dichlorophenol	120-83-2	mg/Kg	190	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2,4-Dimethylphenol	105-67-9	mg/Kg	1300	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2,4-Dinitrophenol	51-28-5	mg/Kg	130	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2,4-Dinitrotoluene	121-14-2	mg/Kg	1.7	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2,6-Dinitrotoluene	606-20-2	mg/Kg	0.36	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2-Chloronaphthalene	91-58-7	mg/Kg	5000	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2-Chlorophenol	95-57-8	mg/Kg	340	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2-Methylnaphthalene	91-57-6	mg/Kg	310	NC	ND(<0.0846)	0.266	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
2-Methylphenol	95-48-7	mg/Kg	3200	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
2-Nitroaniline	88-74-4	mg/Kg	630	NC	ND(<1.05)	ND(<1.11)	ND(<1.14)	NA	ND(<1.11)	ND(<1.28)
2-Nitrophenol	88-75-5	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
3 & 4-Methylphenol	106-44-5	mg/Kg	6300	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
3,3'-Dichlorobenzidine	91-94-1	mg/Kg	1.2	NC	ND(<0.842)	ND(<0.892)	ND(<0.913)	NA	ND(<0.889)	ND(<0.514)
3-Nitroaniline	99-09-2	mg/Kg	NE	NC	ND(<1.05)	ND(<1.11)	ND(<1.14)	NA	ND(<1.11)	ND(<1.28)
4,6-Dinitro-2-methylphenc	534-52-1	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
4-Bromophenyl phenyl eth	101-55-3	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
4-Chloro-3-methylphenol	35421-08-0	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
4-Chloroaniline	106-47-8	mg/Kg	2.7	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
4-Chlorophenyl phenyl eth	7005-72-3	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
4-Nitroaniline	100-01-6	mg/Kg	NE	NC	ND(<1.05)	ND(<1.11)	ND(<1.14)	NA	ND(<1.11)	ND(<1.28)
4-Nitrophenol	100-02-7	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Acenaphthene	83-32-9	mg/Kg	4100	NC	ND(<0.0846)	0.0521	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Acenaphthylene	208-96-8	mg/Kg	4200	NC	ND(<0.0846)	0.241	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Anthracene	120-12-7	mg/Kg	23000	NC	ND(<0.0846)	0.35	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Benzo(a)anthracene	56-55-3	mg/Kg	0.21	28.3	ND(<0.0846)	0.659	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS55C 9/8/2011	SS56B 9/8/2011	SS60A 9/8/2011	SSIP 9/8/2011	SS57A 9/8/2011	SS57A FD 9/8/2011
Benzo(a)pyrene	50-32-8	mg/Kg	0.016	2.87	ND(<0.0846)	0.881	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Benzo(b)fluoranthene	205-99-2	mg/Kg	0.16	28.7	ND(<0.0846)	1.37	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Benzo(g,h,i)perylene	191-24-2	mg/Kg	1800	NC	ND(<0.0846)	0.608	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Benzo(k)fluoranthene	207-08-9	mg/Kg	1.6	287	ND(<0.0846)	1.22	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
bis(2-Chloroethoxy)metha	111-91-1	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
bis(2-Chloroethyl)ether	111-44-4	mg/Kg	0.24	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
bis(2-Chloroisopropyl)ethe	108-60-1	mg/Kg	5.1	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
bis(2-Ethylhexyl)phthalate	117-81-7	mg/Kg	39	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Butyl benzyl phthalate	85-68-7	mg/Kg	290	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Carbazole	86-74-8	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Chrysene	218-01-9	mg/Kg	16	2870	ND(<0.0846)	0.923	0.0493	NA	ND(<0.0893)	ND(<0.103)
Dibenz(a,h)anthracene	53-70-3	mg/Kg	0.016	2.87	ND(<0.0846)	0.185	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Dibenzofuran	132-64-9	mg/Kg	78	NC	ND(<0.42)	0.224	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Diethyl phthalate	84-66-2	mg/Kg	51000	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Dimethyl phthalate	131-11-3	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Di-n-butyl phthalate	84-74-2	mg/Kg	6300	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Di-n-octyl phthalate	117-84-0	mg/Kg	NE	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Fluoranthene	206-44-0	mg/Kg	2400	NC	ND(<0.0846)	0.899	0.0488	NA	ND(<0.0893)	0.0576
Fluorene	86-73-7	mg/Kg	2900	NC	ND(<0.0846)	0.0726	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Hexachlorobenzene	118-74-1	mg/Kg	0.22	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Hexachlorobutadiene	87-68-3	mg/Kg	1.3	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Hexachlorocyclopentadien	77-47-4	mg/Kg	1.9	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Hexachloroethane	67-72-1	mg/Kg	2	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Indeno(1,2,3-cd)pyrene	193-39-5	mg/Kg	0.16	28.7	ND(<0.0846)	0.683	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Isophorone	78-59-1	mg/Kg	570	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Naphthalene	91-20-3	mg/Kg	4.1	NC	ND(<0.0846)	0.222	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Nitrobenzene	98-95-3	mg/Kg	5.5	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
N-Nitroso-di-n-propylamin	621-64-7	mg/Kg	0.078	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
N-Nitrosodiphenylamine	86-30-6	mg/Kg	110	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Pentachlorophenol	87-86-5	mg/Kg	1	NC	ND(<1.05)	ND(<1.11)	ND(<1.14)	NA	ND(<1.11)	ND(<1.28)
Phenanthrene	85-01-8	mg/Kg	23000	NC	ND(<0.0846)	0.442	ND(<0.0917)	NA	ND(<0.0893)	ND(<0.103)
Phenol	108-95-2	mg/Kg	19000	NC	ND(<0.42)	ND(<0.445)	ND(<0.456)	NA	ND(<0.444)	ND(<0.514)
Pyrene	129-00-0	mg/Kg	2300	NC	ND(<0.0846)	1.06	0.0557	NA	ND(<0.0893)	0.0658
Pesticides										
2,4,5-T	93-76-5	mg/Kg	630	NC	NA	NA	NA	NA	ND(<0.0445)	0.0515
2,4,5-TP (Silvex)	93-72-1	mg/Kg	510	NC	NA	NA	NA	NA	ND(<0.0229)	0.0265

2011 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SS55C 9/8/2011	SS56B 9/8/2011	SS60A 9/8/2011	SSIP 9/8/2011	SS57A 9/8/2011	SS57A FD 9/8/2011
2,4-D	94-75-7	mg/Kg	700	NC	NA	NA	NA	NA	ND(<0.09)	0.104
2,4-DB	94-82-6	mg/Kg	510	NC	NA	NA	NA	NA	ND(<0.09)	0.104
Dinoseb	88-85-7	mg/Kg	63	NC	NA	NA	NA	NA	ND(<0.09)	0.104
Pentachlorophenol	87-86-5	mg/Kg	1	NC	NA	NA	NA	NA	ND(<0.0445)	ND(<0.0515)
PCBs										
Aroclor 1016	12674-11-2	mg/Kg	5.5	NC	NA	NA	NA	ND(<0.0454)	NA	NA
Aroclor 1221	11104-28-2	mg/Kg	0.26	NC	NA	NA	NA	ND(<0.0454)	NA	NA
Aroclor 1232	11141-16-5	mg/Kg	0.22	NC	NA	NA	NA	ND(<0.0454)	NA	NA
Aroclor 1242	53469-21-9	mg/Kg	0.31	NC	NA	NA	NA	ND(<0.0454)	NA	NA
Aroclor 1248	12672-29-6	mg/Kg	0.31	NC	NA	NA	NA	ND(<0.0454)	NA	NA
Aroclor 1254	11097-69-1	mg/Kg	0.32	NC	NA	NA	NA	ND(<0.0454)	NA	NA
Aroclor 1260	11096-82-5	mg/Kg	0.33	NC	NA	NA	NA	ND(<0.0454)	NA	NA

Notes:

Bold: Indicates concentration is above the WVDEP 60CSR3 Table 60-3B De Minimis Screening Lev

Bold: Indicates concentration is above the Site Spesific Stndard Screening Level for Recreator Soil

1) Human Health Risk Assessment for the Cheat River Trail, Preston County, West Virginia, Risk-B

2) Phase II Environmental Site Assessment Report, Cheat River Trail, ACRES EPA Site ID:113282, T

NC - Not calculated

NA - Not applicable

mg/Kg - Milligrams per kilogram

2018 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS No.	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SB 1 12/6/2018	SB 2 12/6/2018	SB 3 12/6/2018	SB 4 12/6/2018	SB 5 12/6/2018	SB 6 12/6/2018	SB 7 12/6/2018	SB 8 12/6/2018	SB 9 12/6/2018	SB 10 12/6/2018
Arsenic	7440-38-2	mg/Kg	0.43	16.9	19.5	61.2	17.9	10.9	34.9	47.6	17.7	80.6	29.4	18.4
Lead	7439-92-1	mg/Kg	400	NC	23.6	55.6	20	15.7	32.2	21.9	19.9	33.8	30.4	23.2
TPH		mg/Kg	NE	NC	182	202	54.6	81.7	70.1	67.3	20.8	66.8	64.9	102
Anthracene	120-12-7	mg/Kg	23000	NC	0.276	0.563	0.0642	0.18	0.163	0.0389	0.612	0.0963	0.162	0.173
Acenaphthene	83-32-9	mg/Kg	4100	NC	0.0418	0.0306	0.00762	0.0156	0.0143	0.00333	0.0469	0.00667	0.0152	0.0147
Acenaphthylene	208-96-8	mg/Kg	4200	NC	0.276	0.623	0.0553	0.176	0.109	0.0413	0.509	0.0677	0.142	0.22
Benzo(a)anthracene	56-55-3	mg/Kg	0.21	28.3	0.963	3.7	0.248	0.939	0.547	0.105	3.09	0.203	0.642	0.673
Benzo(a)pyrene	50-32-8	mg/Kg	0.016	2.87	1.24	3.89	0.334	0.979	0.614	0.0965	3.82	0.233	0.705	1.08
Benzo(b)fluoranthene	205-99-2	mg/Kg	0.16	28.7	2.26	7.62	0.738	1.93	1.18	0.18	7.18	0.463	1.41	2
Benzo(g,h,i)perylene	191-24-2	mg/Kg	1800	NC	1.25	2.86	0.285	0.716	0.484	0.0642	2.79	0.19	0.556	1.05
Benzo(k)fluoranthene	207-08-9	mg/Kg	1.6	287	0.637	2.46	0.212	0.536	0.405	0.0586	2.26	0.133	0.397	0.6
Chrysene	218-01-9	mg/Kg	16	2870	1.15	3.86	0.354	1	0.633	0.152	3.12	0.277	0.774	0.91
Dibenzo(a,h)anthracene	53-70-3	mg/Kg	0.016	2.87	0.302	0.819	0.0695	0.196	0.158	0.0193	0.765	0.0537	0.165	0.237
Fluoranthene	206-44-0	mg/Kg	2400	NC	1.53	4.13	0.351	1.13	0.779	0.273	3.69	0.293	0.89	0.803
Fluorene	86-73-7	mg/Kg	2900	NC	0.0518	0.0386	0.00861	0.024	0.0189	0.00732	0.0505	0.0137	0.0242	0.023
Indeno(1,2,3-cd)pyrene	193-39-5	mg/Kg	0.16	28.7	1.63	4.13	0.401	1.04	0.683	0.0945	3.96	0.25	0.781	1.31
Naphthalene	91-20-3	mg/Kg	4.1	NC	0.121	0.112	0.0414	0.0503	0.0481	0.00899	0.126	0.0517	0.113	0.0437
Phenanthrene	85-01-8	mg/Kg	23000	NC	0.385	0.446	0.0838	0.161	0.144	0.0632	0.515	0.155	0.242	0.14
Pyrene	129-00-0	mg/Kg	2300	NC	1.41	4.43	0.358	1.26	0.756	0.22	3.92	0.287	0.874	0.856

Notes:

Bold: Indicates concentration is above the WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil

1) Human Health Risk Assessment for the Cheat River Trail, Preston County, West Virginia, Risk-Based Remedies, RBR Consulting, Beaver Falls, PA, April 2012, Table 2-2

2) Phase II Environmental Site Assessment Report, Cheat River Trail, ACRES EPA Site ID:113282, Triad Engineering, Inc. 219 Hartman Run Road, Morgantown, WV, November 2011

NA - Not applicable

mg/Kg - Milligrams per kilogram

2018 Soil Analytical Results
Cheat River Trail - Preston County, West Virginia

Parameter	CAS No.	Units	WV De Minimus Screening Level (mg/kg)	Site Specific Standard Recreator Screening Level (mg/kg)	SB 11 12/6/2018	SB 12 12/6/2018	SB 13 12/6/2018	SB 14 12/6/2018	SB 15 12/6/2018
Arsenic	7440-38-2	mg/Kg	0.43	16.9	8.41	21.2	13.9	11.4	9.2
Lead	7439-92-1	mg/Kg	400	NC	17.9	23.1	9.71	24.1	14.1
TPH		mg/Kg	NE	NC	55.3	74.8	50.1	162	100
Anthracene	120-12-7	mg/Kg	23000	NC	0.133	0.12	0.502	0.0971	0.199
Acenaphthene	83-32-9	mg/Kg	4100	NC	0.00866	0.00961	0.026	0.00665	0.0455
Acenaphthylene	208-96-8	mg/Kg	4200	NC	0.116	0.111	0.423	0.0808	0.165
Benzo(a)anthracene	205-99-2	mg/Kg	0.16	28.3	0.213	0.302	1.56	0.193	0.518
Benzo(a)pyrene	50-32-8	mg/Kg	0.016	2.87	0.296	0.404	2.3	0.246	0.645
Benzo(b)fluoranthene	205-99-2	mg/Kg	0.16	28.7	0.639	0.865	4.93	0.459	1.3
Benzo(g,h,i)perylene	191-24-2	mg/Kg	1800	NC	0.323	0.351	1.93	0.206	0.581
Benzo(k)fluoranthene	207-08-9	mg/Kg	1.6	287	0.162	0.245	1.51	0.119	0.346
Chrysene	218-01-9	mg/Kg	16	2870	0.35	0.388	1.33	0.213	0.588
Dibenzo(a,h)anthracene	53-70-3	mg/Kg	0.016	2.87	0.0832	0.0941	0.486	0.0555	0.165
Fluoranthene	206-44-0	mg/Kg	2400	NC	0.393	0.398	1.93	0.223	0.671
Fluorene	86-73-7	mg/Kg	2900	NC	0.0153	0.0136	0.0386	0.0123	0.0425
Indeno(1,2,3-cd)pyrene	193-39-5	mg/Kg	0.16	28.7	0.409	0.504	2.66	0.286	0.824
Naphthalene	91-20-3	mg/Kg	4.1	NC	0.021	0.0441	0.12	0.0273	0.138
Phenanthrene	85-01-8	mg/Kg	23000	NC	0.105	0.0974	0.323	0.0705	0.316
Pyrene	129-00-0	mg/Kg	2300	NC	0.36	0.428	2.3	0.236	0.628

Notes:

Bold: Indicates concentration is above the WVDEP 60CSR3 Table 60-3B De Minimis Screening Level for Residential Soil

1) Human Health Risk Assessment for the Cheat River Trail, Preston County, West Virginia, Risk-Based Remedies, RBR Consulting, Beaver Falls, PA, April 2012, Table 2-2

2) Phase II Environmental Site Assessment Report, Cheat River Trail, ACRES EPA Site ID:113282, Triad Engineering, Inc. 219 Hartman Run Road, Morgantown, WV, November 2011

NA - Not applicable

mg/Kg - Milligrams per kilogram

Page Intentionally Left Blank

Appendix B
Regional Screening Level On-Line Calculator Output

Appendix B
Site-Specific Recreator Soil/Sediment Inputs

Variable	Recreator Soil/Sediment Default Value	Form-Input Value
A (PEF Dispersion Constant)	16.2302	16.2302
A (VF Dispersion Constant)	11.911	11.911
A (VF Dispersion Constant - mass limit)	11.911	11.911
B (PEF Dispersion Constant)	18.7762	18.7762
B (VF Dispersion Constant)	18.4385	18.4385
B (VF Dispersion Constant - mass limit)	18.4385	18.4385
City (PEF Climate Zone) Selection	Default	Default
City (VF Climate Zone) Selection	Default	Default
C (PEF Dispersion Constant)	216.108	216.108
C (VF Dispersion Constant)	209.7845	209.7845
C (VF Dispersion Constant - mass limit)	209.7845	209.7845
foc (fraction organic carbon in soil) g/g	0.006	0.006
F(x) (function dependent on U_m/U_t) unitless	0.194	0.194
n (total soil porosity) L_{pore}/L_{soil}	0.43396	0.43396
p_b (dry soil bulk density) g/cm^3	1.5	1.5
p_b (dry soil bulk density - mass limit) g/cm^3	1.5	1.5
PEF (particulate emission factor) m^3/kg	1359344438	1359344438
p_s (soil particle density) g/cm^3	2.65	2.65
Q/C_{wind} (g/m^2-s per kg/m^3)	93.77	93.77
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18	68.18
Q/C_{vol} (g/m^2-s per kg/m^3 - mass limit)	68.18	68.18
A_s (PEF acres)	0.5	0.5
A_s (VF acres)	0.5	0.5
A_s (VF mass-limit acres)	0.5	0.5
AF_{0-2} (skin adherence factor) mg/cm^2	0.2	0.2
AF_{2-6} (skin adherence factor) mg/cm^2	0.2	0.2
AF_{6-16} (skin adherence factor) mg/cm^2	0.07	0.07
AF_{16-30} (skin adherence factor) mg/cm^2	0.07	0.07
AF_{rec-a} (skin adherence factor - adult) mg/cm^2	0.07	0.07
AF_{rec-c} (skin adherence factor - child) mg/cm^2	0.2	0.2
AT_{rec} (averaging time)	365	365
BW_{0-2} (body weight) kg	15	15
BW_{2-6} (body weight) kg	15	15
BW_{6-16} (body weight) kg	80	80
BW_{16-30} (body weight) kg	80	80
BW_{rec-a} (body weight - adult) kg	80	80
BW_{rec-c} (body weight - child) kg	15	15
$DFS_{rec-adj}$ (age-adjusted soil dermal factor) mg/kg	0	4135.6
$DFSM_{rec-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	0	17130.4
ED_{rec} (exposure duration - recreator) years	26	26
ED_{0-2} (exposure duration) year	2	2
ED_{2-6} (exposure duration) year	4	4
ED_{6-16} (exposure duration) year	10	10
ED_{16-30} (exposure duration) year	10	10
ED_{rec-c} (exposure duration - child) years	6	6
EF_{rec} (exposure frequency) days/year	0	14

Appendix B
Site-Specific Recreator Soil/Sediment Inputs

Variable	Recreator Soil/Sediment Default Value	Form-Input Value
EF_{0-2} (exposure frequency) days/year	0	14
EF_{2-6} (exposure frequency) days/year	0	14
EF_{6-16} (exposure frequency) days/year	0	14
EF_{16-30} (exposure frequency) days/year	0	14
EF_{rec-a} (exposure frequency - adult) days/year	0	14
EF_{rec-c} (exposure frequency - child) days/year	0	14
ET_{rec} (exposure time - recreator) hours/day	0	24
ET_{0-2} (exposure time) hours/day	0	24
ET_{2-6} (exposure time) hours/day	0	24
ET_{6-16} (exposure time) hours/day	0	24
ET_{16-30} (exposure time) hours/day	0	24
ET_{rec-a} (adult exposure time) hours/day	0	24
ET_{rec-c} (child exposure time) hours/day	0	24
THQ (target hazard quotient) unitless	0.1	1
$IFS_{rec-adj}$ (age-adjusted soil ingestion factor) mg/kg	0	1470
$IFSM_{rec-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	0	6673.333
IRS_{0-2} (soil intake rate) mg/day	200	200
IRS_{2-6} (soil intake rate) mg/day	200	200
IRS_{6-16} (soil intake rate) mg/day	100	100
IRS_{16-30} (soil intake rate) mg/day	100	100
IRS_{rec-a} (soil intake rate - adult) mg/day	100	100
IRS_{rec-c} (soil intake rate - child) mg/day	200	200
LT (lifetime - recreator) years	70	70
SA_{0-2} (skin surface area) cm^2/day	2373	2373
SA_{2-6} (skin surface area) cm^2/day	2373	2373
SA_{6-16} (skin surface area) cm^2/day	6032	6032
SA_{16-30} (skin surface area) cm^2/day	6032	6032
SA_{rec-a} (skin surface area - adult) cm^2/day	6032	6032
SA_{rec-c} (skin surface area - child) cm^2/day	2373	2373
TR (target risk) unitless	0.000001	0.000001
T_w (groundwater temperature) Celsius	25	25
$Theta_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396	0.28396
$Theta_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15	0.15
T (exposure interval) s	819936000	819936000
T (exposure interval) yr	26	26
U_m (mean annual wind speed) m/s	4.69	4.69
U_t (equivalent threshold value)	11.32	11.32
V (fraction of vegetative cover) unitless	0.5	0.5

Appendix B
Site-Specific Recreator Regional Screening Levels (RSLs) for Soil/Sediment

Chemical	CAS Number	Mutagen?	Volatile?	Chemical Type	SF_o(mg/kg-day)$^{-1}$	SF_oRef	IUR (ug/m^3)$^{-1}$	IUR Ref	RfD (mg/kg-day)	RfD Ref	RfC (mg/m^3)
Acenaphthene	83-32-9	No	Yes	Organics	-		-		6.00E-02	IRIS	-
Acenaphthylene	208-96-8	No	Yes	Organics	-		-		-		-
Anthracene	120-12-7	No	Yes	Organics	-		-		3.00E-01	IRIS	-
Arsenic, Inorganic	7440-38-2	No	No	Inorganics	1.50E+00	IRIS	4.30E-03	IRIS	3.00E-04	IRIS	1.50E-05
Benz[a]anthracene	56-55-3	Yes	Yes	Organics	1.00E-01	EPA/RPF	6.00E-05	EPA/RPF	-		-
Benzo[a]pyrene	50-32-8	Yes	No	Organics	1.00E+00	IRIS	6.00E-04	IRIS	3.00E-04	IRIS	2.00E-06
Benzo[b]fluoranthene	205-99-2	Yes	No	Organics	1.00E-01	EPA/RPF	6.00E-05	EPA/RPF	-		-
Benzo[g,h,i]perylene	191-24-2	No	No	Organics	-		-		-		-
Benzo[k]fluoranthene	207-08-9	Yes	No	Organics	1.00E-02	EPA/RPF	6.00E-06	EPA/RPF	-		-
Chlorobenzene	108-90-7	No	Yes	Organics	-		-		2.00E-02	IRIS	5.00E-02
Chrysene	218-01-9	Yes	No	Organics	1.00E-03	EPA/RPF	6.00E-07	EPA/RPF	-		-
Dibenz[a,h]anthracene	53-70-3	Yes	No	Organics	1.00E+00	EPA/RPF	6.00E-04	EPA/RPF	-		-
Fluoranthene	206-44-0	No	No	Organics	-		-		4.00E-02	IRIS	-
Fluorene	86-73-7	No	Yes	Organics	-		-		4.00E-02	IRIS	-
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	Organics	1.00E-01	EPA/RPF	6.00E-05	EPA/RPF	-		-
Lead and Compounds	7439-92-1	No	No	Inorganics	-		-		-		-
Naphthalene	91-20-3	No	Yes	Organics	1.20E-01	CALEPA	3.40E-05	CALEPA	2.00E-02	IRIS	3.00E-03
Phenanthrene	85-01-8	No	Yes	Organics	-		-		-		-
Pyrene	129-00-0	No	Yes	Organics	-		-		3.00E-02	IRIS	-
Tetrachloroethylene	127-18-4	No	Yes	Organics	2.10E-03	IRIS	2.60E-07	IRIS	6.00E-03	IRIS	4.00E-02

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Appendix B
Site-Specific Recreator Regional Screening Levels (RSLs) for Soil/Sediment

RfC Ref	GIABS	ABS	RBA	Soil Saturation Concentration (mg/kg)	S (mg/L)	K_{oc} (cm^3/g)	K_d (cm^3/g)	HLC (atm-m^3/mole)	Henry's Law Constant Used in Calcs (unitless)	H` and HLC Ref	Normal Boiling Point BP (K)	BP Ref
	1.00E+00	1.30E-01	1.00E+00	-	3.90E+00	5.03E+03	3.02E+01	1.84E-04	7.52E-03	PHYSPROP	5.52E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	1.61E+01	5.03E+03	3.02E+01	1.14E-04	4.66E-03	PHYSPROP	5.53E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	4.34E-02	1.64E+04	9.82E+01	5.56E-05	2.27E-03	PHYSPROP	6.13E+02	PHYSPROP
CALEPA	1.00E+00	3.00E-02	6.00E-01	-	-	-	2.90E+01	-	-		8.88E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	9.40E-03	1.77E+05	1.06E+03	1.20E-05	4.91E-04	PHYSPROP	7.11E+02	PHYSPROP
IRIS	1.00E+00	1.30E-01	1.00E+00	-	1.62E-03	5.87E+05	-	4.57E-07	1.87E-05	PHYSPROP	7.68E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	1.50E-03	5.99E+05	-	6.57E-07	2.69E-05	PHYSPROP	7.16E+02	EPI
	1.00E+00	1.30E-01	1.00E+00	-	2.60E-04	1.95E+06	-	3.31E-07	1.35E-05	PHYSPROP	7.59E+02	EPI
	1.00E+00	1.30E-01	1.00E+00	-	8.00E-04	5.87E+05	-	5.84E-07	2.39E-05	PHYSPROP	7.53E+02	PHYSPROP
PPRTV	1.00E+00	-	1.00E+00	7.61E+02	4.98E+02	2.34E+02	1.40E+00	3.11E-03	1.27E-01	PHYSPROP	4.05E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	2.00E-03	1.81E+05	-	5.23E-06	2.14E-04	PHYSPROP	7.21E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	2.49E-03	1.91E+06	-	1.41E-07	5.76E-06	EPI	7.97E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	2.60E-01	5.55E+04	-	8.86E-06	3.62E-04	PHYSPROP	6.57E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	1.69E+00	9.16E+03	5.50E+01	9.62E-05	3.93E-03	PHYSPROP	5.68E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	1.90E-04	1.95E+06	-	3.48E-07	1.42E-05	PHYSPROP	8.09E+02	PHYSPROP
	1.00E+00	-	1.00E+00	-	-	-	9.00E+02	-	-		2.02E+03	CRC
IRIS	1.00E+00	1.30E-01	1.00E+00	-	3.10E+01	1.54E+03	9.26E+00	4.40E-04	1.80E-02	PHYSPROP	4.91E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	1.15E+00	1.67E+04	1.00E+02	4.23E-05	1.73E-03	PHYSPROP	6.13E+02	PHYSPROP
	1.00E+00	1.30E-01	1.00E+00	-	1.35E-01	5.43E+04	3.26E+02	1.19E-05	4.87E-04	PHYSPROP	6.77E+02	PHYSPROP
IRIS	1.00E+00	-	1.00E+00	1.66E+02	2.06E+02	9.49E+01	5.70E-01	1.77E-02	7.24E-01	PHYSPROP	3.94E+02	PHYSPROP

Appendix B
Site-Specific Recreator Regional Screening Levels (RSLs) for Soil/Sediment

Critical Temperature TC (K)	TC Ref	Chemical Type	D_{ia} (cm^2/s)	D_{iw} (cm^2/s)	D_A (cm^2/s)	Particulate Emission Factor (m^3/kg)	Volatilization Factor (m^3/kg)	Ingestion SL TR=1E-06 (mg/kg)	Dermal SL TR=1E-06 (mg/kg)	Inhalation SL TR=1E-06 (mg/kg)
8.03E+02	YAWS	PAH	5.06E-02	8.33E-06	6.72E-07	1.36E+09	1.41E+05	-	-	-
7.92E+02	YAWS	PAH	4.50E-02	6.98E-06	3.70E-07	1.36E+09	1.89E+05	-	-	-
8.73E+02	YAWS	PAH	3.90E-02	7.85E-06	4.85E-08	1.36E+09	5.23E+05	-	-	-
1.67E+03	CRC	INORGANIC	-	-	-	1.36E+09	-	1.93E+01	1.37E+02	2.22E+04
9.79E+02	YAWS	PAH	2.61E-02	6.75E-06	6.83E-10	1.36E+09	4.41E+06	3.83E+01	1.15E+02	1.86E+03
9.69E+02	EPA 2001 Fact Sheet	PAH	2.55E-02	6.58E-06	-	1.36E+09	-	3.83E+00	1.15E+01	5.74E+04
9.69E+02	EPA 2001 Fact Sheet	PAH	2.50E-02	6.43E-06	-	1.36E+09	-	3.83E+01	1.15E+02	5.74E+05
1.09E+03	Jobak Method	PAH	2.39E-02	6.09E-06	-	1.36E+09	-	-	-	-
1.02E+03	EPA 2001 Fact Sheet	PAH	2.50E-02	6.43E-06	-	1.36E+09	-	3.83E+02	1.15E+03	5.74E+06
6.32E+02	CRC	VOC	7.21E-02	9.48E-06	3.20E-04	1.36E+09	6.45E+03	-	-	-
9.79E+02	YAWS	PAH	2.61E-02	6.75E-06	-	1.36E+09	-	3.83E+03	1.15E+04	5.74E+07
9.90E+02	EPA 2001 Fact Sheet	PAH	2.36E-02	6.02E-06	-	1.36E+09	-	3.83E+00	1.15E+01	5.74E+04
9.05E+02	YAWS	PAH	2.76E-02	7.18E-06	-	1.36E+09	-	-	-	-
8.26E+02	YAWS	PAH	4.40E-02	7.89E-06	1.68E-07	1.36E+09	2.81E+05	-	-	-
1.08E+03	EPA 2001 Fact Sheet	PAH	2.47E-02	6.37E-06	-	1.36E+09	-	3.83E+01	1.15E+02	5.74E+05
5.40E+03	YAWS	INORGANIC	-	-	-	1.36E+09	-	-	-	-
7.48E+02	CRC	PAH	6.05E-02	8.38E-06	6.20E-06	1.36E+09	4.63E+04	1.45E+02	3.96E+02	9.56E+01
8.69E+02	YAWS	PAH	3.45E-02	6.69E-06	3.21E-08	1.36E+09	6.43E+05	-	-	-
9.36E+02	YAWS	PAH	2.78E-02	7.25E-06	2.35E-09	1.36E+09	2.38E+06	-	-	-
6.20E+02	YAWS	VOC	5.05E-02	9.46E-06	2.41E-03	1.36E+09	2.35E+03	8.28E+03	-	6.34E+02

Appendix B
Site-Specific Recreator Regional Screening Levels (RSLs) for Soil/Sediment

Carcinogenic SL TR=1E-06 (mg/kg)	Ingestion SL Child THQ=1 (mg/kg)	Dermal SL Child THQ=1 (mg/kg)	Inhalation SL Child THQ=1 (mg/kg)	Noncarcinogenic SL Child THI=1 (mg/kg)	Ingestion SL Adult THQ=1 (mg/kg)	Dermal SL Adult THQ=1 (mg/kg)	Inhalation SL Adult THQ=1 (mg/kg)	Noncarcinogenic SL Adult THI=1 (mg/kg)	Screening Level (mg/kg)
-	1.17E+05	3.80E+05	-	8.97E+04	1.25E+06	2.28E+06	-	8.08E+05	8.97E+04 nc
-	-	-	-	-	-	-	-	-	
-	5.87E+05	1.90E+06	-	4.48E+05	6.26E+06	1.14E+07	-	4.04E+06	4.48E+05 nc max
1.69E+01	9.78E+02	8.24E+03	5.32E+05	8.73E+02	1.04E+04	4.94E+04	5.32E+05	8.47E+03	1.69E+01 ca max
2.83E+01	-	-	-	-	-	-	-	-	2.83E+01 ca max
2.87E+00	5.87E+02	1.90E+03	7.09E+04	4.45E+02	6.26E+03	1.14E+04	7.09E+04	3.82E+03	2.87E+00 ca max
2.87E+01	-	-	-	-	-	-	-	-	2.87E+01 ca max
-	-	-	-	-	-	-	-	-	
2.87E+02	-	-	-	-	-	-	-	-	2.87E+02 ca max
-	3.91E+04	-	8.40E+03	6.92E+03	4.17E+05	-	8.40E+03	8.24E+03	6.92E+03 nc sat max
2.87E+03	-	-	-	-	-	-	-	-	2.87E+03 ca sat max
2.87E+00	-	-	-	-	-	-	-	-	2.87E+00 ca sat max
-	7.82E+04	2.54E+05	-	5.98E+04	8.34E+05	1.52E+06	-	5.39E+05	5.98E+04 nc sat max
-	7.82E+04	2.54E+05	-	5.98E+04	8.34E+05	1.52E+06	-	5.39E+05	5.98E+04 nc sat max
2.87E+01	-	-	-	-	-	-	-	-	2.87E+01 ca sat max
-	-	-	-	-	-	-	-	-	
5.03E+01	3.91E+04	1.27E+05	3.62E+03	3.23E+03	4.17E+05	7.60E+05	3.62E+03	3.58E+03	5.03E+01 ca sat max
-	-	-	-	-	-	-	-	-	
-	5.87E+04	1.90E+05	-	4.48E+04	6.26E+05	1.14E+06	-	4.04E+05	4.48E+04 nc sat max
5.89E+02	1.17E+04	-	2.45E+03	2.03E+03	1.25E+05	-	2.45E+03	2.40E+03	5.89E+02 ca sat max

Page Intentionally Left Blank

Appendix C
Data Validation Report

DATA VALIDATION REPORT - Level III Review

SDG No.:	**30405475 + 30405879 + 30405885 + 30411349**	**Analysis:**	**VOC, PAH, SVOC, SPLP Leachate**
Laboratory:	**Pace Analytical**	**Project:**	**FOC River Trail**
Reviewer:	**Tyler Bryant**	**Date:**	**April 13th, 2021**

This report presents the findings of a review of the referenced data. The report consists of this summary, a listing of the samples included in the review, data qualifier descriptions, supporting documentation, and an explanation of the data qualifying flags employed. The review performed is based on the specifics of the analytical method referenced and provisions of the approved project-specific work plan; and, qualified according to the *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, EPA-540-R-2017-002, January 2017, with the exception USEPA Region III "B" flag use for blank qualification, as stated on the EPA Region III website. Modifications reflect the level of review requested and the specifics of the analytical methods employed.

Major Anomalies: None.

Minor Anomalies: During the volatile organic compounds analysis, the parent sample, SSS-12(0'-2'), displayed a matrix spike pair (MS/MSD) relative percent difference (RPD) outside of the quality control (QC) limit of 30% at 61% for naphthalene. The associated field sample result was non-detect, no data qualifying action was required.

During the polyaromatic hydrides analysis, the method blank, 2103991, in QC batch 435872 displayed a concentration for naphthalene greater than the detection limit at 7.6 µg/Kg. The positive associated field sample results that were greater than five times the blank detection required no data qualifying action, while the results less than five times the blank detection were qualified B,bl. The non-detect field sample results required no data qualifying action. The following laboratory control spikes (LCS) displayed percent recoveries less than the lower QC limits:

Lab Sample ID	Analyte	Sequence	QC Limits (%)	LCS Recovery (%)
2103682	Benzo(a)anthracene	435762	63-119	62
	Benzo(a)pyrene		56-121	48

The field sample results associated with the negative biases were non-detect and were qualified UJ,l. The following parent samples displayed MS/MSD percent recovery anomalies and/or RPD exceedances:

Parent Sample	Analyte	Sequence	QC Limits (%)	MS Recovery (%)	MSD Recovery (%)	RPD (%)
SSS-12(0'-2')(SPLP)	Anthracene	435762	26-114	53	67	22
	Fluoranthene		32-123	59	75	23
	Phenanthrene		26-116	50	65	22
	Pyrene		31-125	59	75	23
SSS-08(0'-2')(SPLP)	Acenaphthene	435762	10-125	38	59	44
	Acenaphthylene		21-116	37	59	45
	Anthracene		26-114	40	59	39
	Fluoranthene		32-123	51	65	24
	Fluorene		10-134	39	60	34
	Naphthalene		17-98	56	64	44
	Phenanthrene		26-116	40	59	37

Parent Sample	Analyte	Sequence	QC Limits (%)	MS Recovery (%)	MSD Recovery (%)	RPD (%)
	Pyrene		31-125	52	67	25
SSS-12(0'-2')	Acenaphthene	435561	24-109	67	1810	180
	Anthracene		32-115	94	787	155
	Benzo(a)anthracene		30-133	98	947	160
	Benzo(a)pyrene		11-151	104	421	120
	Benzo(b)fluoranthene		25-140	111	602	136
	Benzo(g,h,i)perylene		10-126	64	105	49
	Benzo(k)fluoranthene		25-157	98	308	103
	Chrysene		10-142	84	548	145
	Fluoranthene		20-139	61	2580	184
	Fluorene		28-114	79	1790	178
	Indeno(1,2,3-cd)pyrene		15-123	73	117	45
	Naphthalene		15-104	68	809	161
	Phenanthrene		10-135	19	3080	187
	Pyrene		13-139	70	2270	183
SSS-10(0'-2')	Anthracene	435872	32-115	66	107	22
	Benzo(a)anthracene		30-133	56	128	32
	Benzo(a)pyrene		11-151	-21	139	40
	Benzo(b)fluoranthene		25-140	-318	-73	38
	Benzo(g,h,i)perylene		10-126	27	82	23
	Benzo(k)fluoranthene		25-127	-554	-470	28
	Chrysene		10-142	15	107	36
	Fluoranthene		20-139	11	141	37
	Indeno(1,2,3-cd)pyrene		15-123	25	88	26
	Phenanthrene		10-135	48	124	29
	Pyrene		13-139	26	136	35
SSB-02(2'-8')	Naphthalene	436066	10-135	93	118	23
SED-2-D (0-0.5)	Benzo(b)fluoranthene	439851	25-140	92	57	21
	Chrysene		10-142	98	54	29
	Fluoranthene		20-139	107	47	33
	Pyrene		13-139	101	48	31

The positive field sample results associated with the positive biases were qualified J+,m, while non-detects required no data qualifying action. The field sample results associated with the negative biases were positive and were qualified J-,m. The field sample result associated with indeterminate bias was qualified J,m. The positive field sample results associated with the RPD exceedances that were not previously qualified based on the MS/MSD percent recoveries were qualified J,m, while non-detects required no data qualifying action. The following parent samples displayed surrogate recoveries greater than the upper QC limits:

Analysis Date	Analysis Time	Parent Sample	Surrogate	QC Limits (%)	Recovery (%)
2/22/2021	1334	SSS-15(0'-2')	2-Fluorobiphenyl	37-88	94
2/22/2021	1409	SSB-15(2'-8')	2-Fluorobiphenyl	37-88	91
2/22/2021	1444	SSS-14(0'-2')	2-Fluorobiphenyl	37-88	94
2/22/2021	1520	SSB-14(2'-8') Dup	2-Fluorobiphenyl	37-88	93
2/22/2021	1555	SSB-13(2'-8')	2-Fluorobiphenyl	37-88	92
2/22/2021	1648	SSS-12(0'-2')MSD	2-Fluorobiphenyl	37-88	93
2/22/2021	1741	SSS-11(0'-2')	2-Fluorobiphenyl	37-88	89
2/24/2021	1648	SSS-10(0'-2')	2-Fluorobiphenyl	37-88	89
2/22/2021	1725	SSS-10(0'-2')MS(SPLP)	Terphenyl-d_{14}	55-109	51

Analysis Date	Analysis Time	Parent Sample	Surrogate	QC Limits (%)	Recovery (%)
2/24/2021	1903	SSS-9(2-8)	2-Fluorobiphenyl	37-88	98
2/25/2021	2239	SSB-03(2'-8')	2-Fluorobiphenyl	37-88	92
2/25/2021	2257	SSB-03(2'-8') Dup	2-Fluorobiphenyl	37-88	92
2/25/20021	2314	SSS-04(0'-2')	2-Fluorobiphenyl	37-88	92
2/16/2021	1630	Equipment Blank 3	Terphenyl-d_{14}	55-109	46
2/26/2021	1300	SSB-01(2'-8')	2-Fluorobiphenyl	37-88	96
2/26/2021	1326	SSB-01(2'-8')Dup	2-Fluorobiphenyl	37-88	91
3/24/2021	1527	SED-1-U (0-0.5)	2-Fluorobiphenyl	37-88	92
3/24/2021	1825	SED-5-U (0-0.5)	2-Fluorobiphenyl	37-88	94
3/24/2021	1842	SED-5-D (0-0.5)	2-Fluorobiphenyl	37-88	95
3/24/2021	1900	SED-6-U (0-0.5)	2-Fluorobiphenyl	37-88	89
3/24/2021	1918	SED-7-U (0-0.5)	2-Fluorobiphenyl	37-88	91

The positive field sample results associated with high surrogate recoveries were qualified J,s, while non-detects required no data qualifying action. The following field duplicate pairs displayed duplicate imprecision:

Parent Sample	Analyte	Parent Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	RPD (%)	QC Limit
SSS-9(0-2)	Acenaphthylene	40.8	ND	131	50
	Benzo(a)anthracene	39.8	ND	129.6	
	Benzo(a)pyrene	31	ND	113.9	
	Benzo(b)fluoranthene	77.8	9.4	156.9	
	Benzo(g,h,i)perylene	19.2	ND	77.3	
	Benzo(k)fluoranthene	76	9.2	156.8	
	Chrysene	122	13.5	160.1	
	Dibenz(a,h)anthracene	9.8	ND	14.2	
	Fluoranthene	82.6	9.5	158.7	
	Indeno(1,2,3-cd)pyrene	10.1	ND	17.2	
	Naphthalene	337	10	188.5	
	Phenanthrene	352	30.5	168.1	
	Pyrene	74.9	ND	159.2	
SSB-03(2'-8')	Fluoranthene	ND	19.7	84.5	
	Phenanthrene	12	34.6	97.0	
	Pyrene	ND	13.5	51.2	
SSB-01(2'-8')	Phenanthrene	9.1	ND	14.1	
SED-2-D (0-0.5)	Acenaphthylene	18.2	ND	35.6	
	Dibenz(a,h)anthracene	19.4	ND	41.7	
	Naphthalene	16.6	ND	26.6	
	Pyrene	234	138	51.6	

The positive field duplicate pair results associated with RPD exceedances were qualified J,fd. The field duplicate pair results in which a target analyte displayed a positive detection in one sample and a non-detect in the associated sample were qualified J,fd for positive results, and UJ,fd for non-detect results.

During the metals analysis, the parent sample SSS-01(0'-2') displayed a MS/MSD RPD outside the QC limit of 20% at 25% for arsenic. The associated field sample result was positive and was qualified J,m. the following laboratory duplicates displayed RPD exceedances greater than the QC limit of 20%:

Parent Sample	Analyte	Parent Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	RPD (%)
SSS-15(0'-2')	Lead	23.4	13.2	56
SSS-12(0'-2')	Arsenic	8.4	4.4	62
SSS-10(0'-2')	Arsenic	6.3	8.3	27

The positive associated field sample results were qualified J,ld, while non-detect results were qualified UJ,ld. The following field duplicate pairs displayed imprecise results:

Parent Sample	Analyte	Parent Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	RPD (%)	QC Limit
SSS-9(0-2)	Arsenic	45.6	15.7	97.6	50
SSB-03(2'-8')	Arsenic	14.6	5.2	94.9	
	Lead	16	6.3	87.0	
SSB-01(2'-8')	Arsenic	20.3	9	77.1	

The field duplicate pair results were positive and were qualified J,fd.

Correctable Anomalies: None.

Comments: On the basis of this evaluation, the laboratory appears to have followed the specified method, with the exception of anomalies discussed previously. If a given fraction was not discussed, all quality control criteria reviewed were within acceptable limits. All data are usable, as qualified, for their intended purposed based on the quality control data reviewed.

Signed: Tyler Bryant

FOC River Trail

Laboratory: Pace Analytical

Job: 60589127 SDG#: 30405475 + 05879 + 05885 + 11349

Sample ID	Client ID	Sample Type	Sample Date	Matrix	VOC (Naphthalene)	PAHs	Metals	SVOCs	SPLP Leachate
30405475001	SSS-15(0'-2')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475002	SSB-15(2'-8')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475003	SSS-14(0'-2')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475004	SSB-14(2'-8')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475005	SSB-14(2'-8') Dup	Field Duplicate	2/8/2021	Soil	X	X	X	X	
30405475006	SSS-13(0'-2')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475007	SSB-13(2'-8')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475008	SSS-12(0'-2')	Field Sample	2/8/2021	Soil	X	X	X	X	X
30405475009	SSS-12(0'-2')(SPLP)	Leachate Sample	2/17/2021	Water		X			
30405475010	SSS-12(0'-2')MS	Matrix Spike	2/8/2021	Soil	X	X	X	X	X
30405475011	SSS-12(0'-2')MS(SPLP)	Matrix Spike	2/17/2021	Water		X			
30405475012	SSS-12(0'-2')MSD	Matrix Spike Duplicate	2/8/2021	Soil	X	X	X	X	X
30405475013	SSS-12(0'-2')MSD(SPLP)	Matrix Spike Duplicate	2/17/2021	Water		X			
30405475014	SSB-12(2'-8')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475015	SSS-11(0'-2')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475016	SSB-11(2'-8')	Field Sample	2/8/2021	Soil	X	X	X	X	
30405475017	Equipment Blank 1	Equipment Blank	2/8/2021	Water		X	X	X	
30405475018	Field Blank 1	Field Blank	2/8/2021	Soil		X	X	X	
30405475019	SSS-10(0'-2')	Field Sample	2/9/2021	Soil	X	X	X	X	
30405475020	SSS-10(0'-2')(SPLP)	Leachate Sample	2/17/2021	Water		X			
30405475021	SSS-10(0'-2')MS	Matrix Spike	2/9/2021	Soil	X	X	X	X	
30405475022	SSS-10(0'-2')MS(SPLP)	Matrix Spike	2/17/2021	Water		X			
30405475023	SSS-10(0'-2')MSD	Matrix Spike Duplicate	2/9/2021	Soil	X	X	X	X	
30405475024	SSS-10(0'-2')MSD(SPLP)	Matrix Spike Duplicate	2/17/2021	Water		X			
30405475025	Equipment Blank 2	Equipment Blank	2/9/2021	Water	X	X	X	X	
30405475026	SSB-10(2'-8')	Field Sample	2/9/2021	Soil	X	X	X	X	
30405475027	SSS-9(0-2)	Field Sample	2/9/2021	Soil	X	X	X	X	
30405475028	SSS-9(0-2)Dup	Field Duplicate	2/9/2021	Soil	X	X	X	X	
30405475029	SSS-9(2-8)	Field Sample	2/9/2021	Soil	X	X	X	X	
30405475030	Field Blank	Field Blank	2/9/2021	Water	X	X	X	X	
30405475031	Trip Blank	Trip Blank	2/9/2021	Water	X				
30405879001	SSS-02(0'-2')	Field Sample	2/10/2021	Soil	X	X	X	X	X
30405879002	SSS-02(0'-2')(SPLP)	Leachate Sample	2/17/2021	Water		X			
30405879003	SSB-02(2'-8')	Field Sample	2/10/2021	Soil	X	X	X	X	
30405879004	SSS-03(0'-2')	Field Sample	2/10/2021	Soil	X	X	X	X	
30405879005	SSB-03(2'-8')	Field Sample	2/10/2021	Soil	X	X	X	X	
30405879006	SSB-03(2'-8') Dup	Field Duplicate	2/10/2021	Soil	X	X	X	X	
30405879007	SSS-04(0'-2')	Field Sample	2/10/2021	Soil	X	X	X	X	
30405879008	SSB-04(2'-8')	Field Sample	2/10/2021	Soil	X	X	X	X	
30405879009	SSB-05(0'-2')	Field Sample	2/10/2021	Soil	X	X	X	X	X
30405879010	SSB-05(0'-2')(SPLP)	Leachate Sample	2/17/2021	Water		X			
30405879011	SSB-05(0'-2')MS	Matrix Spike	2/10/2021	Soil	X	X	X	X	X
30405879012	SSB-05(0'-2')MS(SPLP)	Matrix Spike	2/17/2021	Water		X			
30405879013	SSB-05(0'-2')MSD	Matrix Spike Duplicate	2/10/2021	Soil	X	X	X	X	X
30405879014	SSB-05(0'-2')MSD(SPLP)	Matrix Spike Duplicate	2/17/2021	Water		X			
30405879015	SSB-05(2'-8')	Field Sample	2/10/2021	Soil	X	X	X	X	
30405879016	Equipment Blank 3	Equipment Blank	2/10/2021	Water	X	X	X	X	
30405879017	Field Blank 3	Field Blank	2/10/2021	Water	X	X	X	X	

FOC River Trail

Laboratory: Pace Analytical

Job: 60589127 SDG#: 30405475 + 05879 + 05885 + 11349

Sample ID	Client ID	Sample Type	Sample Date	Matrix	VOC (Naphthalene)	PAHs	Metals	SVOCs	SPLP Leachate
30405879018	Trip Blank 2	Trip Blank	2/11/2021	Water	X				
30405879019	Trip Blank 3	Trip Blank	2/11/2021	Water	X				
30405879020	SSS-06(0'-2')	Field Sample	2/11/2021	Soil	X	X	X	X	
30405879021	SSB-06(2'-8')	Field Sample	2/11/2021	Soil	X	X	X	X	
30405879022	SSS-07(0'-2')	Field Sample	2/11/2021	Soil	X	X	X	X	
30405879023	SSB-07(2'-8')	Field Sample	2/11/2021	Soil	X	X	X	X	
30405879024	SSB-07(2'-8')Dup	Field Duplicate	2/11/2021	Soil	X	X	X	X	
30405879025	SSS-08(0'-2')	Field Sample	2/11/2021	Soil	X	X	X	X	X
30405879026	SSS-08(0'-2')(SPLP)	Leachate Sample	2/17/2021	Water		X			
30405879027	SSS-08(0'-2')MS	Matrix Spike	2/11/2021	Soil	X	X	X	X	X
30405879028	SSS-08(0'-2')MS(SPLP)	Matrix Spike	2/17/2021	Water		X			
30405879029	SSS-08(0'-2')MSD	Matrix Spike Duplicate	2/11/2021	Soil	X	X	X	X	X
30405879030	SSS-08(0'-2')MSD(SPLP)	Matrix Spike Duplicate	2/17/2021	Water		X			
30405879031	SSS-08(2'-8')	Field Sample	2/11/2021	Soil	X	X	X	X	
30405879032	Equipment Blank 4	Equipment Blank	2/11/2021	Water	X	X	X	X	
30405879033	Field Blank 4	Field Blank	2/11/2021	Water	X	X	X	X	
30405879034	Trip Blank 4	Trip Blank	2/11/2021	Water	X				
30405879035	Trip Blank 5	Trip Blank	2/11/2021	Water	X				
30405885001	SSS-01(0'-2')	Field Sample	2/12/2021	Soil	X	X	X	X	
30405885002	SSS-01(0'-2')MS	Matrix Spike	2/12/2021	Soil	X	X	X	X	
30405885003	SSS-01(0'-2')MSD	Matrix Spike Duplicate	2/12/2021	Soil	X	X	X	X	
30405885004	SSB-01(2'-8')	Field Sample	2/12/2021	Soil	X	X	X	X	
30405885005	SSB-01(2'-8')Dup	Field Duplicate	2/12/2021	Soil	X	X	X	X	
30405885006	Field Blank 5	Field Blank	2/12/2021	Water	X	X	X	X	
30405885007	Equipment Blank 5	Equipment Blank	2/12/2021	Water	X	X	X	X	
30405885008	Trip Blank	Trip Blank	2/12/2021	Water	X				
30411349001	SED-1-U (0-0.5)	Field Sample	3/16/2021	Soil	X	X	X	X	
30411349002	SED-1-D (0-0.5)	Field Sample	3/16/2021	Soil	X	X	X	X	
30411349003	SPLP-1 (0-0.5)	Leachate Sample	3/16/2021	Soil					X
30411349004	SED-2-U (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349005	SED-2-D (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349006	SPLP-2 (0-0.5)	Field Sample	3/17/2021	Soil					X
30411349007	SED-2-D (0-0.5)MS	Matrix Spike	3/17/2021	Soil	X	X	X	X	
30411349008	SED-2-D (0-0.5)MSD	Matrix Spike Duplicate	3/17/2021	Soil	X	X	X	X	
30411349009	SED-2-D (0-0.5)Dup	Field Duplicate	3/17/2021	Soil	X	X	X	X	
30411349010	SED-3-U (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349011	SED-3-D (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349012	SPLP-3 (0-0.5)	Field Sample	3/17/2021	Soil					X
30411349013	SED-4-U (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349014	SPLP-4 (0-0.5)	Field Sample	3/17/2021	Soil					X
30411349015	SED-5-U (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349016	SED-5-D (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349017	SPLP-5-(0-0.5)	Field Sample	3/17/2021	Soil					X
30411349018	SED-6-U (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349019	SPLP-6 (0-0.5)	Field Sample	3/17/2021	Soil					X
30411349020	SED-7-U (0-0.5)	Field Sample	3/17/2021	Soil	X	X	X	X	
30411349021	SPLP-7 (0-0.5)	Field Sample	3/17/2021	Soil					X
30411349022	Field Blank 1	Field Blank	3/16/2021	Water	X	X	X	X	

FOC River Trail

Laboratory: Pace Analytical

Job: 60589127 SDG#: 30405475 + 05879 + 05885 + 11349

Sample ID	Client ID	Sample Type	Sample Date	Matrix	VOC (Naphthalene)	PAHs	Metals	SVOCs	SPLP Leachate
30411349023	Equipment Blank 1	Equipment Blank	3/16/2021	Water	X	X	X	X	
30411349024	Field Blank 2	Field Blank	3/16/2021	Water	X	X	X	X	
30411349025	Equipment Blank 2	Equipment Blank	3/16/2021	Water	X	X	X	X	
30411349026	Trip Blank 1	Trip Blank	3/16/2021	Water	X				
30411349027	Trip Blank 2	Trip Blank	3/16/2021	Water	X				
30411349028	Trip Blank 3	Trip Blank	3/16/2021	Water	X				
30411349029	SPLP-1(0-0.5) Leachate	Leachate Sample	3/26/2021	Water					X
30411349030	SPLP-2 (0-0.5)Leachate	Leachate Sample	3/26/2021	Water					X
30411349031	SPLP-3 (0-0.5)Leachate	Leachate Sample	3/26/2021	Water					X
30411349032	SPLP-4 (0-0.5)Leachate	Leachate Sample	3/26/2021	Water					X
30411349033	SPLP-5 (0-0.5)Leachate	Leachate Sample	3/26/2021	Water					X
30411349034	SPLP-6 (0-0.5)Leachate	Leachate Sample	3/26/2021	Water					X
30411349035	SPLP-7 (0-0.5)Leachate	Leachate Sample	3/27/2021	Water					X

FOC River Trail
Field Duplicates

Client Sample ID:				SSB-14(2'-8')	SSB-14(2'-8') Dup				
Date Sampled:				2/8/21	2/8/21				
	Units	LOQ	5x LOQ	Sample Conc	Duplicate Conc	% RPD	Delta	4x LOQ	Pass/ Fail
Metals (6010D)									
Arsenic	mg/Kg	1.00	5.00	10.2	13.2	25.6%	3.0	4.0	Pass
Lead	mg/Kg	1.00	5.00	21.4	32	39.7%	10.6	4.0	Pass
PAH by SIM (8270E)									
Acenapthene	ug/Kg	7.8	39	21.7	25.6	16.5%	3.9	31.2	Pass
Acenaphthylene	ug/Kg	7.8	39	35.3	36.6	3.6%	1.3	31.2	Pass
Anthracene	ug/Kg	7.8	39	47.7	44.6	6.7%	3.1	31.2	Pass
Benzo(a)anthracene	ug/Kg	7.8	39	151	138	9.0%	13.0	31.2	Pass
Benzo(a)pyrene	ug/Kg	7.8	39	158	136	15.0%	22.0	31.2	Pass
Benzo(b)fluoranthene	ug/Kg	7.8	39	364	310	16.0%	54.0	31.2	Pass
Benzo(g,h,i)perylene	ug/Kg	7.8	39	71.9	59.3	19.2%	12.6	31.2	Pass
Benzo(k)fluoranthene	ug/Kg	7.8	39	110	102	7.5%	8.0	31.2	Pass
Chrysene	ug/Kg	7.8	39	180	181	0.6%	1.0	31.2	Pass
Dibenz(a,h)anthracer	ug/Kg	7.8	39	28.7	27.4	4.6%	1.3	31.2	Pass
Fluoranthene	ug/Kg	7.8	39	245	234	4.6%	11.0	31.2	Pass
Fluorene	ug/Kg	7.8	39	20.4	24.7	19.1%	4.3	31.2	Pass
Indeno(1,2,3-cd)pyre	ug/Kg	7.8	39	73	59.5	20.4%	13.5	31.2	Pass
Naphthalene	ug/Kg	7.8	39	60.7	100	48.9%	39.3	31.2	Pass
Phenanthrene	ug/Kg	7.8	39	151	221	37.6%	70.0	31.2	Pass
Pyrene	ug/Kg	7.8	39	230	204	12.0%	26.0	31.2	Pass

MSV 5035 Low Level (8260B) Non-detect

Control limit [sample]>5xLOQ use 50%
[sample]<5xLOQ use Delta<4xLOQ

FOC River Trail
Field Duplicates

Client Sample ID:				SSS-9(0-2)	SSS-9(0-2)Dup					
Date Sampled:				2/9/21	2/9/21					
	Units	LOQ	5x LOQ	Sample Conc	Duplicate Conc		% RPD	Delta	4x LOQ	Pass/ Fail
Metals (6010D)										
Arsenic	mg/Kg	1.30	6.50	45.6	15.7		97.6%	29.9	5.2	Fail
Lead	mg/Kg	1.30	6.50	29.7	19.2		42.9%	10.5	5.2	Pass
PAH by SIM (8270E)										
Acenaphthylene	ug/Kg	8.5	43	40.8	8.5	ND	#####	32.3	34.0	Pass
Benzo(a)anthracene	ug/Kg	8.5	43	39.8	8.5	ND	#####	31.3	34.0	Pass
Benzo(a)pyrene	ug/Kg	8.5	43	31	8.5	ND	#####	22.5	34.0	Pass
Benzo(b)fluoranthene	ug/Kg	8.5	43	77.8	9.4		#####	68.4	34.0	Fail
Benzo(g,h,i)perylene	ug/Kg	8.5	43	19.2	8.5	ND	77.3%	10.7	34.0	Pass
Benzo(k)fluoranthene	ug/Kg	8.5	43	76	9.2		#####	66.8	34.0	Fail
Chrysene	ug/Kg	8.5	43	122	13.5		#####	108.5	34.0	Fail
Dibenz(a,h)anthracer	ug/Kg	8.5	43	9.8	8.5	ND	14.2%	1.3	34.0	Pass
Fluoranthene	ug/Kg	8.5	43	82.6	9.5		#####	73.1	34.0	Fail
Indeno(1,2,3-cd)pyre	ug/Kg	8.5	43	10.1	8.5	ND	17.2%	1.6	34.0	Pass
Naphthalene	ug/Kg	8.5	43	337	10		#####	327.0	34.0	Fail
Phenanthrene	ug/Kg	8.5	43	352	30.5		#####	321.5	34.0	Fail
Pyrene	ug/Kg	8.5	43	74.9	8.5	ND	#####	66.4	34.0	Fail

MSV 5035 Low Level (8260B Non-detect

Control limit [sample]>5xLOQ use 50%
[sample]<5xLOQ use Delta<4xLOQ

FOC River Trail
Field Duplicates

Client Sample ID:				SSB-03(2'-8')		SSB-03(2'-8') Dup				
Date Sampled:				2/10/21		2/10/21				
	Units	LOQ	5x LOQ	Sample Conc		Duplicate Conc	% RPD	Delta	4x LOQ	Pass/ Fail
Metals (6010D)										
Arsenic	mg/Kg	1.10	5.50	14.6		5.2	94.9%	9.4	4.4	Fail
Lead	mg/Kg	1.10	5.50	16		6.3	87.0%	9.7	4.4	Fail
PAH by SIM (8270E)										
Fluoranthene	ug/Kg	8.0	40	8.0	ND	19.7	84.5%	11.7	32.0	Pass
Phenanthrene	ug/Kg	8.0	40	12		34.6	97.0%	22.6	32.0	Pass
Pyrene	ug/Kg	8.0	40	8.0	ND	13.5	51.2%	5.5	32.0	Pass

MSV 5035 Low Level (8260B) Non-detect

Control limit [sample]>5xLOQ use 50%
[sample]<5xLOQ use Delta<4xLOQ

FOC River Trail
Field Duplicates

Client Sample ID:				SSB-07(2'-8')	SSB-07(2'-8')Dup				
Date Sampled:				2/11/21	2/11/21				
	Units	LOQ	5x LOQ	Sample Conc	Duplicate Conc	% RPD	Delta	4x LOQ	Pass/ Fail
Metals (6010D)									
Arsenic	mg/Kg	0.95	4.75	7.5	8.8	16.0%	1.3	3.8	Pass
Lead	mg/Kg	0.95	4.75	17.8	14.4	21.1%	3.4	3.8	Pass
PAH by SIM (8270E)									
Chrysene	ug/Kg	7.4	37	11	13.6	21.1%	2.6	29.6	Pass
Phenanthrene	ug/Kg	7.4	37	35.6	43.3	19.5%	7.7	29.6	Pass

MSV 5035 Low Level (8260B) Non-detect

Control limit [sample]>5xLOQ use 50%
[sample]<5xLOQ use Delta<4xLOQ

FOC River Trail
Field Duplicates

Client Sample ID:				SSB-01(2'-8')	SSB-01(2'-8')Dup					
Date Sampled:				2/12/21	2/12/21					
	Units	LOQ	5x LOQ	Sample Conc	Duplicate Conc		% RPD	Delta	4x LOQ	Pass/ Fail
Metals (6010D)										
Arsenic	mg/Kg	1.10	5.50	20.3	9		77.1%	11.3	4.4	Fail
Lead	mg/Kg	1.10	5.50	16.4	12.7		25.4%	3.7	4.4	Pass
PAH by SIM (8270E)										
Phenanthrene	ug/Kg	7.9	40	9.1	7.9	ND	14.1%	1.2	31.6	Pass
MSV 5035 Low Level (8260B)				Non-detect						

Control limit [sample]>5xLOQ use 50%
[sample]<5xLOQ use Delta<4xLOQ

FOC River Trail
Field Duplicates

Client Sample ID:				SED-2-D (0-0.5)	SED-2-D (0-0.5)Dup					
Date Sampled:				3/17/21	3/17/21					
	Units	LOQ	5x LOQ	Sample Conc	Duplicate Conc		% RPD	Delta	4x LOQ	Pass/ Fail
Metals (6010D)										
Arsenic	mg/Kg	1.70	8.50	12.3	9.3		27.8%	3.0	6.8	Pass
Lead	mg/Kg	1.70	8.50	18.5	13.3		32.7%	5.2	6.8	Pass
PAH by SIM (8270E)										
Acenaphthylene	ug/Kg	12.7	64	18.2	12.7	ND	35.6%	5.5	50.8	Pass
Anthracene	ug/Kg	12.7	64	33.1	24.3		30.7%	8.8	50.8	Pass
Benzo(a)anthracene	ug/Kg	12.7	64	116	74.7		43.3%	41.3	50.8	Pass
Benzo(a)pyrene	ug/Kg	12.7	64	105	65.8		45.9%	39.2	50.8	Pass
Benzo(b)fluoranthene	ug/Kg	12.7	64	240	151		45.5%	89.0	50.8	Pass
Benzo(g,h,i)perylene	ug/Kg	12.7	64	55.3	36.2		41.7%	19.1	50.8	Pass
Benzo(k)fluoranthene	ug/Kg	12.7	64	66.8	42.3		44.9%	24.5	50.8	Pass
Chrysene	ug/Kg	12.7	64	181	119		41.3%	62.0	50.8	Pass
Dibenz(a,h)anthracer	ug/Kg	12.7	64	19.4	12.7	ND	41.7%	6.7	50.8	Pass
Fluoranthene	ug/Kg	12.7	64	248	156		45.5%	92.0	50.8	Pass
Indeno(1,2,3-cd)pyre	ug/Kg	12.7	64	53	33.3		45.7%	19.7	50.8	Pass
Naphthalene	ug/Kg	12.7	64	16.6	12.7	ND	26.6%	3.9	50.8	Pass
Phenanthrene	ug/Kg	12.7	64	61.7	38.2		47.0%	23.5	50.8	Pass
Pyrene	ug/Kg	12.7	64	234	138		51.6%	96.0	50.8	Fail

MSV 5035 Low Level (8260B) Non-detect

Control limit [sample]>5xLOQ use 50%
[sample]<5xLOQ use Delta<4xLOQ

Qualified Field Sample Results

Client Sample ID	Result	Limit	Units	Qual	Analyte	Method	Validator Qualifier	Reason Code
SED-1-U (0-0.5)	29.3	13.8	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	30.4	13.8	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	34.3	13.8	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	35.2	13.8	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	38.1	13.8	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	43.9	13.8	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	57.6	13.8	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	64.1	13.8	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	66.4	13.8	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	78.3	13.8	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SED-1-U (0-0.5)	89.3	13.8	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SED-2-D (0-0.5)	16.6	12.7	ug/kg		Naphthalene	EPA 8270E by SIM	J	fd
SED-2-D (0-0.5)	18.2	12.7	ug/kg		Acenaphthylene	EPA 8270E by SIM	J	fd
SED-2-D (0-0.5)	181	12.7	ug/kg		Chrysene	EPA 8270E by SIM	J	m
SED-2-D (0-0.5)	19.4	12.7	ug/kg		Dibenz(a,h)anthracene	EPA 8270E by SIM	J	fd
SED-2-D (0-0.5)	234	12.7	ug/kg		Pyrene	EPA 8270E by SIM	J	m
SED-2-D (0-0.5)	240	12.7	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	m
SED-2-D (0-0.5)	248	12.7	ug/kg		Fluoranthene	EPA 8270E by SIM	J	m
SED-2-D (0-0.5) Dup	138	14.3	ug/kg		Pyrene	EPA 8270E by SIM	J	fd
SED-2-D (0-0.5) Dup	ND	14.3	ug/kg	U	Acenaphthylene	EPA 8270E by SIM	UJ	fd
SED-2-D (0-0.5) Dup	ND	14.3	ug/kg	U	Dibenz(a,h)anthracene	EPA 8270E by SIM	UJ	fd
SED-2-D (0-0.5) Dup	ND	14.3	ug/kg	U	Naphthalene	EPA 8270E by SIM	UJ	fd
SED-5-D (0-0.5)	13.2	11.8	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	14.9	11.8	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	15.9	11.8	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	21.6	11.8	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	37.2	11.8	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	37.8	11.8	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	47.5	11.8	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	48.9	11.8	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	63.3	11.8	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	76.8	11.8	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SED-5-D (0-0.5)	85	11.8	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SED-6-U (0-0.5)	18.1	15.6	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SED-6-U (0-0.5)	20.1	15.6	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SED-6-U (0-0.5)	20.3	15.6	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SED-6-U (0-0.5)	26.8	15.6	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	20.4	15.4	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	22.5	15.4	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	24.6	15.4	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	28.9	15.4	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	34	15.4	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	40.7	15.4	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	s

Qualified Field Sample Results

Client Sample ID	Result	Limit	Units	Qual	Analyte	Method	Validator Qualifier	Reason Code
SED-7-U (0-0.5)	46.1	15.4	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	46.9	15.4	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	50.6	15.4	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	52.7	15.4	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SED-7-U (0-0.5)	84.8	15.4	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SSB-01 (2'-8')	20.3	1.1	mg/kg		Arsenic	EPA 6010D	J	fd
SSB-01 (2'-8')	9.1	7.9	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSB-01 (2'-8') Dup	9	1.2	mg/kg		Arsenic	EPA 6010D	J	fd
SSB-01 (2'-8') Dup	ND	7.8	ug/kg	U	Phenanthrene	EPA 8270E by SIM	UJ	fd
SSB-03(2'-8')	14.6	1.1	mg/kg		Arsenic	EPA 6010D	J	fd
SSB-03(2'-8')	16	1.1	mg/kg		Lead	EPA 6010D	J	fd
SSB-03(2'-8')	12	8	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSB-03(2'-8')	ND	8	ug/kg	U	Fluoranthene	EPA 8270E by SIM	UJ	fd
SSB-03(2'-8')	ND	8	ug/kg	U	Pyrene	EPA 8270E by SIM	UJ	fd
SSB-03(2'-8')DUP	5.2	1.1	mg/kg		Arsenic	EPA 6010D	J	fd
SSB-03(2'-8')DUP	6.3	1.1	mg/kg		Lead	EPA 6010D	J	fd
SSB-03(2'-8')DUP	13.5	8.1	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SSB-03(2'-8')DUP	19.7	8.1	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SSB-03(2'-8')DUP	34.6	8.1	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSB-05(0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)anthracene	EPA 8270E By SIM	UJ	l
SSB-05(0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)pyrene	EPA 8270E By SIM	UJ	l
SSB-13(2'-8')	18.2	8.5	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	100	7.9	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	102	7.9	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	136	7.9	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	138	7.9	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	181	7.9	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	204	7.9	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	221	7.9	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	234	7.9	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	24.7	7.9	ug/kg		Fluorene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	25.6	7.9	ug/kg		Acenaphthene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	27.4	7.9	ug/kg		Dibenz(a,h)anthracene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	310	7.9	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	36.6	7.9	ug/kg		Acenaphthylene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	44.6	7.9	ug/kg		Anthracene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	59.3	7.9	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	s
SSB-14(2'-8') Dup	59.5	7.9	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	1170	7.1	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	1170	7.1	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	1250	7.1	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	1740	71.4	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	194	7.1	ug/kg		Dibenz(a,h)anthracene	EPA 8270E by SIM	J	s

Qualified Field Sample Results

Client Sample ID	Result	Limit	Units	Qual	Analyte	Method	Validator Qualifier	Reason Code
SSB-15(2'-8')	1940	71.4	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	1980	71.4	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	215	7.1	ug/kg		Acenaphthene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	245	7.1	ug/kg		Acenaphthylene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	2510	71.4	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	269	7.1	ug/kg		Fluorene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	305	7.1	ug/kg		Anthracene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	359	7.1	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	388	7.1	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	507	7.1	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SSB-15(2'-8')	720	7.1	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SSS-01 (0'-2')	4.6	1.2	mg/kg		Arsenic	EPA 6010D	J	m
SSS-02(0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)anthracene	EPA 8270E By SIM	UJ	l
SSS-02(0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)pyrene	EPA 8270E By SIM	UJ	l
SSS-04(0'-2')	13.2	7.6	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SSS-04(0'-2')	13.5	7.6	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SSS-04(0'-2')	13.9	7.6	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SSS-04(0'-2')	14.1	7.6	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SSS-04(0'-2')	18.3	7.6	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SSS-04(0'-2')	19.1	7.6	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SSS-04(0'-2')	55.7	7.6	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSS-08 (0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)anthracene	EPA 8270E By SIM	UJ	l
SSS-08 (0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)pyrene	EPA 8270E By SIM	UJ	l
SSS-10 (0'-2')	6.3	1.1	mg/kg		Arsenic	EPA 6010D	J	ld
SSS-10 (0'-2')	ND	0.03	mg/L	U	Arsenic	EPA 6010D	UJ	ld
SSS-10 (0'-2')	105	8.1	ug/kg		Dibenz(a,h)anthracene	EPA 8270E by SIM	J	s
SSS-10 (0'-2')	116	8.1	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SSS-10 (0'-2')	1310	8.1	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J-	m
SSS-10 (0'-2')	1340	8.1	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J-	m
SSS-10 (0'-2')	160	8.1	ug/kg		Anthracene	EPA 8270E by SIM	J	m
SSS-10 (0'-2')	219	8.1	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	m
SSS-10 (0'-2')	276	8.1	ug/kg		Phenanthrene	EPA 8270E by SIM	J	m
SSS-10 (0'-2')	290	8.1	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	m
SSS-10 (0'-2')	304	8.1	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	m
SSS-10 (0'-2')	312	8.1	ug/kg		Chrysene	EPA 8270E by SIM	J	m
SSS-10 (0'-2')	368	8.1	ug/kg		Pyrene	EPA 8270E by SIM	J	m
SSS-10 (0'-2')	450	8.1	ug/kg		Fluoranthene	EPA 8270E by SIM	J	m
SSS-10 (0'-2')	49	8.1	ug/kg		Fluorene	EPA 8270E by SIM	J	s
SSS-10 (0'-2')	550	8.1	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J-	m
SSS-10 (0'-2')	64.7	8.1	ug/kg		Acenaphthene	EPA 8270E by SIM	J	s
SSS-10 (0'-2')	74.8	8.1	ug/kg		Acenaphthylene	EPA 8270E by SIM	J	s
SSS-10 (0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)anthracene	EPA 8270E By SIM	UJ	l
SSS-10 (0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)pyrene	EPA 8270E By SIM	UJ	l

Qualified Field Sample Results

Client Sample ID	Result	Limit	Units	Qual	Analyte	Method	Validator Qualifier	Reason Code
SSS-11(0'-2')	149	8.4	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	157	8.4	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	16.1	8.4	ug/kg		Dibenz(a,h)anthracene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	173	8.4	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	190	8.4	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	20.1	8.4	ug/kg		Acenaphthylene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	204	8.4	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	21.5	8.4	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	26.1	8.4	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	264	8.4	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	43.6	8.4	ug/kg		Acenaphthene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	50.9	8.4	ug/kg		Fluorene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	640	8.4	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	72.5	8.4	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	s
SSS-11(0'-2')	89.8	8.4	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	s
SSS-12(0'-2')	8.4	1.1	mg/kg		Arsenic	EPA 6010D	J	ld
SSS-12(0'-2')	ND	0.03	mg/L	U	Arsenic	EPA 6010D	UJ	ld
SSS-12(0'-2')	11.4	7.9	ug/kg		Anthracene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')	12.4	7.9	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')	142	7.9	ug/kg		Phenanthrene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')	34.8	7.9	ug/kg		Naphthalene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')	39.7	7.9	ug/kg		Fluorene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')	46.7	7.9	ug/kg		Acenaphthene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')	49.9	7.9	ug/kg		Pyrene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')	73.6	7.9	ug/kg		Fluoranthene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')	8.8	7.9	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J+	m
SSS-12(0'-2')(SPLP)	0.14	0.1	ug/L		Phenanthrene	EPA 8270E By SIM	J	m
SSS-12(0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)anthracene	EPA 8270E By SIM	UJ	l
SSS-12(0'-2')(SPLP)	ND	0.1	ug/L	U	Benzo(a)pyrene	EPA 8270E By SIM	UJ	l
SSS-14(0'-2')	15.6	7.4	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	16.9	7.4	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	34.2	7.4	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	35.2	7.4	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	36.1	7.4	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	40.4	7.4	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	7.4	7.4	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	77.2	7.4	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	8.2	7.4	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SSS-14(0'-2')	8.7	7.4	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	23.4	1	mg/kg		Lead	EPA 6010D	J	ld
SSS-15(0'-2')	1330	75.5	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	1720	75.5	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	1950	75.5	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	s

Qualified Field Sample Results

Client Sample ID	Result	Limit	Units	Qual	Analyte	Method	Validator Qualifier	Reason Code
SSS-15(0'-2')	2140	75.5	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	2440	75.5	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	290	7.6	ug/kg		Dibenz(a,h)anthracene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	3560	75.5	ug/kg		Pyrene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	4000	75.5	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	401	7.6	ug/kg		Anthracene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	4190	75.5	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	482	7.6	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	550	7.6	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	716	7.6	ug/kg		Acenaphthylene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	751	7.6	ug/kg		Naphthalene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	82.6	7.6	ug/kg		Fluorene	EPA 8270E by SIM	J	s
SSS-15(0'-2')	84	7.6	ug/kg		Acenaphthene	EPA 8270E by SIM	J	s
SSS-9 (0-2)	45.6	1.3	mg/kg		Arsenic	EPA 6010D	J	fd
SSS-9 (0-2)	10.1	8.5	ug/kg		Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	122	8.5	ug/kg		Chrysene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	19.2	8.5	ug/kg		Benzo(g,h,i)perylene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	31	8.5	ug/kg		Benzo(a)pyrene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	337	8.5	ug/kg		Naphthalene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	352	8.5	ug/kg		Phenanthrene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	39.8	8.5	ug/kg		Benzo(a)anthracene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	40.8	8.5	ug/kg		Acenaphthylene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	74.9	8.5	ug/kg		Pyrene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	76	8.5	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	77.8	8.5	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	82.6	8.5	ug/kg		Fluoranthene	EPA 8270E by SIM	J	fd
SSS-9 (0-2)	9.8	8.5	ug/kg		Dibenz(a,h)anthracene	EPA 8270E by SIM	J	fd
SSS-9 (0-2) Dup	15.7	1.3	mg/kg		Arsenic	EPA 6010D	J	fd
SSS-9 (0-2) Dup	10	9	ug/kg		Naphthalene	EPA 8270E by SIM	B	bl
SSS-9 (0-2) Dup	13.5	9	ug/kg		Chrysene	EPA 8270E by SIM	J	fd
SSS-9 (0-2) Dup	30.5	9	ug/kg		Phenanthrene	EPA 8270E by SIM	J	fd
SSS-9 (0-2) Dup	9.2	9	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	fd
SSS-9 (0-2) Dup	9.4	9	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	fd
SSS-9 (0-2) Dup	9.5	9	ug/kg		Fluoranthene	EPA 8270E by SIM	J	fd
SSS-9 (0-2) Dup	ND	9	ug/kg	U	Acenaphthylene	EPA 8270E by SIM	UJ	fd
SSS-9 (0-2) Dup	ND	9	ug/kg	U	Benzo(a)anthracene	EPA 8270E by SIM	UJ	fd
SSS-9 (0-2) Dup	ND	9	ug/kg	U	Benzo(a)pyrene	EPA 8270E by SIM	UJ	fd
SSS-9 (0-2) Dup	ND	9	ug/kg	U	Benzo(g,h,i)perylene	EPA 8270E by SIM	UJ	fd
SSS-9 (0-2) Dup	ND	9	ug/kg	U	Dibenz(a,h)anthracene	EPA 8270E by SIM	UJ	fd
SSS-9 (0-2) Dup	ND	9	ug/kg	U	Indeno(1,2,3-cd)pyrene	EPA 8270E by SIM	UJ	fd
SSS-9 (0-2) Dup	ND	9	ug/kg	U	Pyrene	EPA 8270E by SIM	UJ	fd
SSS-9 (2-8)	148	7.5	ug/kg		Phenanthrene	EPA 8270E by SIM	J	s
SSS-9 (2-8)	18.5	7.5	ug/kg		Pyrene	EPA 8270E by SIM	J	s

Qualified Field Sample Results

Client Sample ID	Result	Limit	Units	Qual	Analyte	Method	Validator Qualifier	Reason Code
SSS-9 (2-8)	19.7	7.5	ug/kg		Fluoranthene	EPA 8270E by SIM	J	s
SSS-9 (2-8)	31.9	7.5	ug/kg		Benzo(k)fluoranthene	EPA 8270E by SIM	J	s
SSS-9 (2-8)	32.6	7.5	ug/kg		Benzo(b)fluoranthene	EPA 8270E by SIM	J	s
SSS-9 (2-8)	56.4	7.5	ug/kg		Chrysene	EPA 8270E by SIM	J	s
SSS-9 (2-8)	8.8	7.5	ug/kg		Naphthalene	EPA 8270E by SIM	B	bl

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-15(0'-2') **Lab ID: 30405475001** Collected: 02/08/21 16:05 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**10.2**	mg/kg	1.0	1	02/11/21 15:20	02/12/21 08:52	7440-38-2	MH
Lead	**23.4**	mg/kg	1.0	1	02/11/21 15:20	02/12/21 08:52	7439-92-1	D6, ML
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**84.0**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	83-32-9	
Acenaphthylene	**716**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	208-96-8	
Anthracene	**401**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	120-12-7	
Benzo(a)anthracene	**2140**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	56-55-3	
Benzo(a)pyrene	**1950**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	50-32-8	
Benzo(b)fluoranthene	**4000**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	205-99-2	
Benzo(g,h,i)perylene	**482**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	191-24-2	
Benzo(k)fluoranthene	**1330**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	207-08-9	
Chrysene	**2440**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	218-01-9	
Dibenz(a,h)anthracene	**290**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	53-70-3	
Fluoranthene	**4190**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	206-44-0	
Fluorene	**82.6**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**550**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	193-39-5	
Naphthalene	**751**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	91-20-3	
Phenanthrene	**1720**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	85-01-8	
Pyrene	**3560**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	94	%	37-88	1	02/19/21 09:47	02/22/21 13:34	321-60-8	2c, ST
Terphenyl-d14 (S)	85	%	10-128	1	02/19/21 09:47	02/22/21 13:34	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	9.4	1	02/12/21 11:43	02/12/21 12:59	91-20-3	
Surrogates								
Toluene-d8 (S)	102	%	70-130	1	02/12/21 11:43	02/12/21 12:59	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130	1	02/12/21 11:43	02/12/21 12:59	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1	02/12/21 11:43	02/12/21 12:59	17060-07-0	
Dibromofluoromethane (S)	103	%	70-130	1	02/12/21 11:43	02/12/21 12:59	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**12.6**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-15(2'-8') Lab ID: **30405475002** Collected: 02/08/21 16:10 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**7.3**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:01	7440-38-2	
Lead	**41.0**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:01	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**215**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	83-32-9	
Acenaphthylene	**245**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	208-96-8	
Anthracene	**305**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	120-12-7	
Benzo(a)anthracene	**1170**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	56-55-3	
Benzo(a)pyrene	**1250**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	50-32-8	
Benzo(b)fluoranthene	**2510**	ug/kg	71.4	10	02/19/21 09:47	02/22/21 14:27	205-99-2	
Benzo(g,h,i)perylene	**359**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	191-24-2	
Benzo(k)fluoranthene	**720**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	207-08-9	
Chrysene	**1170**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	218-01-9	
Dibenz(a,h)anthracene	**194**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	53-70-3	
Fluoranthene	**1980**	ug/kg	71.4	10	02/19/21 09:47	02/22/21 14:27	206-44-0	
Fluorene	**269**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**388**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	193-39-5	
Naphthalene	**507**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	91-20-3	
Phenanthrene	**1740**	ug/kg	71.4	10	02/19/21 09:47	02/22/21 14:27	85-01-8	
Pyrene	**1940**	ug/kg	71.4	10	02/19/21 09:47	02/22/21 14:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	91	%.	37-88	1	02/19/21 09:47	02/22/21 14:09	321-60-8	2c ST
Terphenyl-d14 (S)	98	%.	10-128	1	02/19/21 09:47	02/22/21 14:09	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	10.5	1	02/12/21 11:43	02/12/21 13:25	91-20-3	
Surrogates								
Toluene-d8 (S)	108	%.	70-130	1	02/12/21 11:43	02/12/21 13:25	2037-26-5	
4-Bromofluorobenzene (S)	124	%.	70-130	1	02/12/21 11:43	02/12/21 13:25	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 13:25	17060-07-0	
Dibromofluoromethane (S)	109	%.	70-130	1	02/12/21 11:43	02/12/21 13:25	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**7.2**	%	0.10	1		02/11/21 18:07		D6

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-14(0'-2') Lab ID: **30405475003** Collected: 02/08/21 15:15 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**8.2**	mg/kg	0.98	1	02/11/21 15:20	02/12/21 09:04	7440-38-2	
Lead	**15.2**	mg/kg	0.98	1	02/11/21 15:20	02/12/21 09:04	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	83-32-9	
Acenaphthylene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	208-96-8	
Anthracene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	120-12-7	
Benzo(a)anthracene	**16.9**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	56-55-3	
Benzo(a)pyrene	**15.6**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	50-32-8	
Benzo(b)fluoranthene	**36.1**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	205-99-2	
Benzo(g,h,i)perylene	**8.7**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	191-24-2	
Benzo(k)fluoranthene	**7.4**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	207-08-9	
Chrysene	**35.2**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	53-70-3	
Fluoranthene	**40.4**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	206-44-0	
Fluorene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	193-39-5	
Naphthalene	**8.2**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	91-20-3	
Phenanthrene	**77.2**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	85-01-8	
Pyrene	**34.2**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	94	%.	37-88	1	02/19/21 09:47	02/22/21 14:44	321-60-8	2c ST
Terphenyl-d14 (S)	107	%.	10-128	1	02/19/21 09:47	02/22/21 14:44	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**14.9**	ug/kg	8.2	1	02/12/21 11:43	02/12/21 13:51	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 13:51	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 13:51	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130	1	02/12/21 11:43	02/12/21 13:51	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 13:51	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**10.8**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-14(2'-8') **Lab ID: 30405475004** Collected: 02/08/21 15:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**10.2**	mg/kg	1.0	1	02/11/21 15:20	02/12/21 09:07	7440-38-2	
Lead	**21.4**	mg/kg	1.0	1	02/11/21 15:20	02/12/21 09:07	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**21.7**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	83-32-9	
Acenaphthylene	**35.3**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	208-96-8	
Anthracene	**47.7**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	120-12-7	
Benzo(a)anthracene	**151**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	56-55-3	
Benzo(a)pyrene	**158**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	50-32-8	
Benzo(b)fluoranthene	**364**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	205-99-2	
Benzo(g,h,i)perylene	**71.9**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	191-24-2	
Benzo(k)fluoranthene	**110**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	207-08-9	
Chrysene	**180**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	218-01-9	
Dibenz(a,h)anthracene	**28.7**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	53-70-3	
Fluoranthene	**245**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	206-44-0	
Fluorene	**20.4**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**73.0**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	193-39-5	
Naphthalene	**60.7**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	91-20-3	
Phenanthrene	**151**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	85-01-8	
Pyrene	**230**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%.	37-88	1	02/19/21 09:47	02/22/21 15:02	321-60-8	2c
Terphenyl-d14 (S)	99	%.	10-128	1	02/19/21 09:47	02/22/21 15:02	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.1	1	02/12/21 11:43	02/12/21 14:17	91-20-3	
Surrogates								
Toluene-d8 (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 14:17	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 14:17	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	02/12/21 11:43	02/12/21 14:17	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 14:17	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**16.6**	%	0.10	1		02/11/21 18:07		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-14(2'-8') Dup **Lab ID: 30405475005** Collected: 02/08/21 15:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**13.2**	mg/kg	1.2	1	02/11/21 15:20	02/12/21 09:10	7440-38-2	
Lead	**32.0**	mg/kg	1.2	1	02/11/21 15:20	02/12/21 09:10	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**25.6**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	83-32-9	
Acenaphthylene	**36.6**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	208-96-8	
Anthracene	**44.6**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	120-12-7	
Benzo(a)anthracene	**138**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	56-55-3	
Benzo(a)pyrene	**136**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	50-32-8	
Benzo(b)fluoranthene	**310**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	205-99-2	
Benzo(g,h,i)perylene	**59.3**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	191-24-2	
Benzo(k)fluoranthene	**102**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	207-08-9	
Chrysene	**181**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	218-01-9	
Dibenz(a,h)anthracene	**27.4**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	53-70-3	
Fluoranthene	**234**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	206-44-0	
Fluorene	**24.7**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**59.5**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	193-39-5	
Naphthalene	**100**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	91-20-3	
Phenanthrene	**221**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	85-01-8	
Pyrene	**204**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	93	%.	37-88	1	02/19/21 09:47	02/22/21 15:20	321-60-8	2c,ST
Terphenyl-d14 (S)	104	%.	10-128	1	02/19/21 09:47	02/22/21 15:20	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	5.4	1	02/12/21 11:43	02/12/21 14:42	91-20-3	
Surrogates								
Toluene-d8 (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 14:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 14:42	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130	1	02/12/21 11:43	02/12/21 14:42	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 14:42	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**16.6**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-13(0'-2') **Lab ID: 30405475006** Collected: 02/08/21 15:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**6.3**	mg/kg	1.2	1	02/11/21 15:20	02/12/21 09:13	7440-38-2	
Lead	**16.0**	mg/kg	1.2	1	02/11/21 15:20	02/12/21 09:13	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**164**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	83-32-9	
Acenaphthylene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	208-96-8	
Anthracene	**37.2**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	120-12-7	
Benzo(a)anthracene	**26.6**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	50-32-8	
Benzo(b)fluoranthene	**17.3**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	207-08-9	
Chrysene	**21.5**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	53-70-3	
Fluoranthene	**164**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	206-44-0	
Fluorene	**153**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	193-39-5	
Naphthalene	**61.3**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	91-20-3	
Phenanthrene	**420**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	85-01-8	
Pyrene	**110**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	81 ✓	%.	37-88	1	02/19/21 09:47	02/22/21 15:37	321-60-8	2c
Terphenyl-d14 (S)	99 ✓	%.	10-128	1	02/19/21 09:47	02/22/21 15:37	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	5.8	1	02/12/21 11:43	02/12/21 15:08	91-20-3	
Surrogates								
Toluene-d8 (S)	99 ✓	%.	70-130	1	02/12/21 11:43	02/12/21 15:08	2037-26-5	
4-Bromofluorobenzene (S)	100 ✓	%.	70-130	1	02/12/21 11:43	02/12/21 15:08	460-00-4	
1,2-Dichloroethane-d4 (S)	114 ✓	%.	70-130	1	02/12/21 11:43	02/12/21 15:08	17060-07-0	
Dibromofluoromethane (S)	101 ✓	%.	70-130	1	02/12/21 11:43	02/12/21 15:08	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**27.6**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-13(2'-8') Lab ID: **30405475007** Collected: 02/08/21 15:05 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**7.2**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:21	7440-38-2	
Lead	**16.5**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:21	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	83-32-9	
Acenaphthylene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	208-96-8	
Anthracene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	207-08-9	
Chrysene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	53-70-3	
Fluoranthene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	206-44-0	
Fluorene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	193-39-5	
Naphthalene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	91-20-3	
Phenanthrene	**18.2**	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	85-01-8	
Pyrene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	92	%.	37-88	1	02/19/21 09:47	02/22/21 15:55	321-60-8	2c, ST
Terphenyl-d14 (S)	104	%.	10-128	1	02/19/21 09:47	02/22/21 15:55	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.2	1	02/12/21 11:43	02/12/21 15:34	91-20-3	
Surrogates								
Toluene-d8 (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 15:34	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 15:34	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	70-130	1	02/12/21 11:43	02/12/21 15:34	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 15:34	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**23.2**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2') Lab ID: **30405475008** Collected: 02/08/21 13:30 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**8.4**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:39	7440-38-2	D6
Lead	**9.4**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:39	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 7.56 Pace Analytical Services - Greensburg							
Arsenic	ND	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:06	7440-38-2	
Lead	ND	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:06	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**46.7**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	83-32-9	MH,R1
Acenaphthylene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	208-96-8	
Anthracene	**11.4**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	120-12-7	MH,R1
Benzo(a)anthracene	**12.4**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	56-55-3	MH,R1
Benzo(a)pyrene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	50-32-8	MH,R1
Benzo(b)fluoranthene	**8.8**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	205-99-2	MH,R1
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	191-24-2	R1
Benzo(k)fluoranthene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	207-08-9	MH,R1
Chrysene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	218-01-9	MH,R1
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	53-70-3	
Fluoranthene	**73.6**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	206-44-0	MH,R1
Fluorene	**39.7**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	86-73-7	MH,R1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	193-39-5	R1
Naphthalene	**34.8**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	91-20-3	MH,R1
Phenanthrene	**142**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	85-01-8	MH,R1
Pyrene	**49.9**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	129-00-0	MH,R1
Surrogates								
2-Fluorobiphenyl (S)	88	%.	37-88	1	02/19/21 09:47	02/22/21 16:13	321-60-8	
Terphenyl-d14 (S)	101	%.	10-128	1	02/19/21 09:47	02/22/21 16:13	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	4.6	1	02/12/21 11:43	02/12/21 16:00	91-20-3	R1
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 16:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 16:00	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130	1	02/12/21 11:43	02/12/21 16:00	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 16:00	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	50.0	10		02/19/21 11:18	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	70-130	10		02/19/21 11:18	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2') **Lab ID: 30405475008** Collected: 02/08/21 13:30 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results		Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Surrogates									
Toluene-d8 (S)	96	✓	%	70-130	10		02/19/21 11:18	2037-26-5	
4-Bromofluorobenzene (S)	101	✓	%	70-130	10		02/19/21 11:18	460-00-4	
Dibromofluoromethane (S)	99	✓	%	70-130	10		02/19/21 11:18	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**15.4**		%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')(SPLP) **Lab ID: 30405475009** Collected: 02/17/21 09:21 Received: 02/17/21 09:21 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**0.10**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	208-96-8	
Anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	120-12-7	R1
Benzo(a)anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	207-08-9	
Chrysene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	206-44-0	R1
Fluorene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	193-39-5	
Naphthalene	**0.22**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	91-20-3	
Phenanthrene	**0.14**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	85-01-8	R1
Pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	129-00-0	R1
Surrogates								
2-Fluorobiphenyl (S)	54	%.	19-92	1	02/22/21 09:02	02/22/21 16:18	321-60-8	
Terphenyl-d14 (S)	78	%.	55-109	1	02/22/21 09:02	02/22/21 16:18	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MS Lab ID: **30405475010** Collected: 02/08/21 14:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**55.4**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:45	7440-38-2	
Lead	**61.7**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:45	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 7.56 Pace Analytical Services - Greensburg							
Arsenic	**0.52**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:11	7440-38-2	
Lead	**0.50**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:11	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**157**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	83-32-9	
Acenaphthylene	**177**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	208-96-8	
Anthracene	**163**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	120-12-7	
Benzo(a)anthracene	**171**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	56-55-3	
Benzo(a)pyrene	**172**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	50-32-8	
Benzo(b)fluoranthene	**188**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	205-99-2	
Benzo(g,h,i)perylene	**104**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	191-24-2	
Benzo(k)fluoranthene	**160**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	207-08-9	
Chrysene	**144**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	218-01-9	
Dibenz(a,h)anthracene	**124**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	53-70-3	
Fluoranthene	**175**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	206-44-0	
Fluorene	**170**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**120**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	193-39-5	
Naphthalene	**145**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	91-20-3	
Phenanthrene	**178**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	85-01-8	
Pyrene	**165**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	95	%.	37-88	1	02/19/21 09:47	02/22/21 16:31	321-60-8	2c,ST
Terphenyl-d14 (S)	103	%.	10-128	1	02/19/21 09:47	02/22/21 16:31	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**19.9**	ug/kg	4.8	1	02/12/21 11:43	02/12/21 16:26	91-20-3	
Surrogates								
Toluene-d8 (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 16:26	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 16:26	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130	1	02/12/21 11:43	02/12/21 16:26	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 16:26	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	**140**	ug/L	50.0	10		02/19/21 11:40	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	70-130	10		02/19/21 11:40	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MS Lab ID: **30405475010** Collected: 02/08/21 14:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	98 ✓	%.	70-130	10		02/19/21 11:40	2037-26-5	
4-Bromofluorobenzene (S)	100 ✓	%.	70-130	10		02/19/21 11:40	460-00-4	
Dibromofluoromethane (S)	96 ✓	%.	70-130	10		02/19/21 11:40	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**18.5**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MS(SPLP) Lab ID: **30405475011** Collected: 02/17/21 09:21 Received: 02/17/21 09:21 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	83-32-9	
Acenaphthylene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	208-96-8	
Anthracene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	120-12-7	
Benzo(a)anthracene	**1.4**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	56-55-3	L2,P2
Benzo(a)pyrene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	205-99-2	
Benzo(g,h,i)perylene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	191-24-2	
Benzo(k)fluoranthene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	207-08-9	
Chrysene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	218-01-9	
Dibenz(a,h)anthracene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	53-70-3	
Fluoranthene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	206-44-0	
Fluorene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	193-39-5	
Naphthalene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	91-20-3	
Phenanthrene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	85-01-8	
Pyrene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	44	%.	19-92	1	02/22/21 09:02	02/22/21 16:35	321-60-8	
Terphenyl-d14 (S)	61	%.	55-109	1	02/22/21 09:02	02/22/21 16:35	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MSD Lab ID: **30405475012** Collected: 02/08/21 14:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**52.4**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:48	7440-38-2	
Lead	**62.1**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:48	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 7.56 Pace Analytical Services - Greensburg							
Arsenic	**0.53**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:14	7440-38-2	
Lead	**0.51**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:14	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**2960**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	83-32-9	E
Acenaphthylene	**178**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	208-96-8	
Anthracene	**1280**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	120-12-7	
Benzo(a)anthracene	**1540**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	56-55-3	
Benzo(a)pyrene	**683**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	50-32-8	
Benzo(b)fluoranthene	**981**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	205-99-2	
Benzo(g,h,i)perylene	**171**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	191-24-2	
Benzo(k)fluoranthene	**500**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	207-08-9	
Chrysene	**892**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	218-01-9	
Dibenz(a,h)anthracene	**149**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	53-70-3	
Fluoranthene	**4240**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	206-44-0	E
Fluorene	**2930**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	86-73-7	E
Indeno(1,2,3-cd)pyrene	**190**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	193-39-5	
Naphthalene	**1340**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	91-20-3	
Phenanthrene	**5120**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	85-01-8	E
Pyrene	**3710**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	129-00-0	E
Surrogates								
2-Fluorobiphenyl (S)	93	%.	37-88	1	02/19/21 09:47	02/22/21 16:48	321-60-8	2c,ST
Terphenyl-d14 (S)	93	%.	10-128	1	02/19/21 09:47	02/22/21 16:48	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**10.6**	ug/kg	4.5	1	02/12/21 11:43	02/12/21 16:51	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 16:51	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 16:51	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	02/12/21 11:43	02/12/21 16:51	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 16:51	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	**167**	ug/L	50.0	10		02/19/21 12:03	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	70-130	10		02/19/21 12:03	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MSD Lab ID: **30405475012** Collected: 02/08/21 14:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	98	%.	70-130	10		02/19/21 12:03	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130	10		02/19/21 12:03	460-00-4	
Dibromofluoromethane (S)	100	%	70-130	10		02/19/21 12:03	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**18.2**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MSD(SPLP) Lab ID: **30405475013** Collected: 02/17/21 09:21 Received: 02/17/21 09:21 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	1.3	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	83-32-9	
Acenaphthylene	1.3	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	208-96-8	
Anthracene	1.3	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	120-12-7	
Benzo(a)anthracene	1.6	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	56-55-3	L2,P2
Benzo(a)pyrene	1.5	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	50-32-8	L2,P2
Benzo(b)fluoranthene	1.4	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	205-99-2	
Benzo(g,h,i)perylene	1.3	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	191-24-2	
Benzo(k)fluoranthene	1.4	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	207-08-9	
Chrysene	1.4	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	218-01-9	
Dibenz(a,h)anthracene	1.4	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	53-70-3	
Fluoranthene	1.5	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	206-44-0	
Fluorene	1.3	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	86-73-7	
Indeno(1,2,3-cd)pyrene	1.4	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	193-39-5	
Naphthalene	1.3	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	91-20-3	
Phenanthrene	1.4	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	85-01-8	
Pyrene	1.5	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52	%.	19-92	1	02/22/21 09:02	02/22/21 16:52	321-60-8	
Terphenyl-d14 (S)	74	%.	55-109	1	02/22/21 09:02	02/22/21 16:52	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-12(2'-8') **Lab ID: 30405475014** Collected: 02/08/21 14:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**14.9**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:33	7440-38-2	
Lead	**26.8**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:33	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**836**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	83-32-9	
Acenaphthylene	**770**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	208-96-8	
Anthracene	**967**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	120-12-7	
Benzo(a)anthracene	**2010**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	56-55-3	
Benzo(a)pyrene	**1800**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	50-32-8	
Benzo(b)fluoranthene	**4580**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	205-99-2	
Benzo(g,h,i)perylene	**616**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	191-24-2	
Benzo(k)fluoranthene	**1210**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	207-08-9	
Chrysene	**2360**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	218-01-9	
Dibenz(a,h)anthracene	**322**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	53-70-3	
Fluoranthene	**4740**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	206-44-0	
Fluorene	**896**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**736**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	193-39-5	
Naphthalene	**775**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	91-20-3	
Phenanthrene	**4700**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	85-01-8	
Pyrene	**4210**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%.	37-88	1	02/19/21 09:47	02/22/21 17:06	321-60-8	2c
Terphenyl-d14 (S)	94	%.	10-128	1	02/19/21 09:47	02/22/21 17:06	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.4	1	02/12/21 11:43	02/12/21 17:17	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 17:17	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130	1	02/12/21 11:43	02/12/21 17:17	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 17:17	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**18.4**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5500

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-11(0'-2') Lab ID: **30405475015** Collected: 02/08/21 17:15 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**7.1**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:36	7440-38-2	
Lead	**19.9**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:36	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**43.6**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	83-32-9	
Acenaphthylene	**20.1**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	208-96-8	
Anthracene	ND	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	120-12-7	
Benzo(a)anthracene	**89.8**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	56-55-3	
Benzo(a)pyrene	**72.5**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	50-32-8	
Benzo(b)fluoranthene	**204**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	205-99-2	lp
Benzo(g,h,i)perylene	**26.1**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	191-24-2	
Benzo(k)fluoranthene	**157**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	207-08-9	lp
Chrysene	**190**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	218-01-9	
Dibenz(a,h)anthracene	**16.1**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	53-70-3	
Fluoranthene	**173**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	206-44-0	
Fluorene	**50.9**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**21.5**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	193-39-5	
Naphthalene	**264**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	91-20-3	
Phenanthrene	**640**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	85-01-8	
Pyrene	**149**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	89	%.	37-88	1	02/19/21 09:47	02/22/21 17:41	321-60-8	S0,ST
Terphenyl-d14 (S)	97	%.	10-128	1	02/19/21 09:47	02/22/21 17:41	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	5.5	1	02/12/21 11:43	02/12/21 17:43	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 17:43	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130	1	02/12/21 11:43	02/12/21 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1	02/12/21 11:43	02/12/21 17:43	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 17:43	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**20.9**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-11(2'-8') Lab ID: **30405475016** Collected: 02/08/21 17:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**10.6**	mg/kg	1.5	1	02/11/21 15:20	02/12/21 09:39	7440-38-2	
Lead	**20.6**	mg/kg	1.5	1	02/11/21 15:20	02/12/21 09:39	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**14.4**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	83-32-9	
Acenaphthylene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	208-96-8	
Anthracene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	207-08-9	lp
Chrysene	**13.6**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	53-70-3	
Fluoranthene	**22.9**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	206-44-0	
Fluorene	**15.3**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	193-39-5	
Naphthalene	**14.4**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	91-20-3	
Phenanthrene	**52.0**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	85-01-8	
Pyrene	**17.3**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	87	%.	37-88	1	02/19/21 09:47	02/22/21 17:59	321-60-8	
Terphenyl-d14 (S)	99	%.	10-128	1	02/19/21 09:47	02/22/21 17:59	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	9.0	1	02/12/21 11:43	02/12/21 18:09	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 18:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 18:09	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130	1	02/12/21 11:43	02/12/21 18:09	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130	1	02/12/21 11:43	02/12/21 18:09	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**35.1**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Equipment Blank 1 **Lab ID: 30405475017** Collected: 02/08/21 17:00 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Arsenic	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:52	7440-38-2	
Lead	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:52	7439-92-1	
Total Hardness by SM2340B-2011	**65600**	ug/L		1	02/11/21 15:14	02/12/21 07:52		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	208-96-8	1c
Anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	207-08-9	1c
Chrysene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	206-44-0	1c
Fluorene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	193-39-5	1c
Naphthalene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	85-01-8	1c
Pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	129-00-0	1c
Surrogates								
2-Fluorobiphenyl (S)	53	%	19-92	1	02/15/21 13:40	02/16/21 15:23	321-60-8	
Terphenyl-d14 (S)	76	%	55-109	1	02/15/21 13:40	02/16/21 15:23	1718-51-0	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Field Blank 1 Lab ID: **30405475018** Collected: 02/08/21 16:40 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Arsenic	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:55	7440-38-2	
Lead	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:55	7439-92-1	
Total Hardness by SM2340B-2011	**63700**	ug/L		1	02/11/21 15:14	02/12/21 07:55		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	208-96-8	1c
Anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	207-08-9	1c
Chrysene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	206-44-0	1c
Fluorene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	193-39-5	1c
Naphthalene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	85-01-8	1c
Pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	129-00-0	1c
Surrogates								
2-Fluorobiphenyl (S)	53	%.	19-92	1	02/15/21 13:40	02/16/21 15:39	321-60-8	
Terphenyl-d14 (S)	63	%.	55-109	1	02/15/21 13:40	02/16/21 15:39	1718-51-0	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2') Lab ID: **30405475019** Collected: 02/09/21 13:30 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**6.3**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:37	7440-38-2	D6
Lead	**12.5**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:37	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 8.64 Pace Analytical Services - Greensburg							
Arsenic	ND	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:17	7440-38-2	
Lead	ND	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:17	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**64.7**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	83-32-9	
Acenaphthylene	**74.8**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	208-96-8	
Anthracene	**160**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	120-12-7	R1
Benzo(a)anthracene	**219**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	56-55-3	R1
Benzo(a)pyrene	**550**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	50-32-8	ML,R1
Benzo(b)fluoranthene	**1340**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	205-99-2	lp,ML,R1
Benzo(g,h,i)perylene	**290**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	191-24-2	R1
Benzo(k)fluoranthene	**1310**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	207-08-9	lp,ML,R1
Chrysene	**312**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	218-01-9	R1
Dibenz(a,h)anthracene	**105**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	53-70-3	
Fluoranthene	**450**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	206-44-0	ML,R1
Fluorene	**49.0**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**304**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	193-39-5	R1
Naphthalene	**116**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	91-20-3	
Phenanthrene	**276**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	85-01-8	R1
Pyrene	**368**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	129-00-0	R1
Surrogates								
2-Fluorobiphenyl (S)	92	%.	37-88	1	02/23/21 11:00	02/24/21 16:48	321-60-8	ST
Terphenyl-d14 (S)	98	%.	10-128	1	02/23/21 11:00	02/24/21 16:48	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.0	1	02/12/21 11:43	02/12/21 18:35	91-20-3	
Surrogates								
Toluene-d8 (S)	97	%.	70-130	1	02/12/21 11:43	02/12/21 18:35	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 18:35	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 18:35	17060-07-0	
Dibromofluoromethane (S)	104	%	70-130	1	02/12/21 11:43	02/12/21 18:35	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	50.0	10		02/19/21 12:25	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	10		02/19/21 12:25	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2') **Lab ID: 30405475019** Collected: 02/09/21 13:30 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	102	%.	70-130	10		02/19/21 12:25	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	10		02/19/21 12:25	460-00-4	
Dibromofluoromethane (S)	102	%	70-130	10		02/19/21 12:25	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**18.2**	%	0.10	1		02/11/21 18:07		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')(SPLP) **Lab ID: 30405475020** Collected: 02/17/21 13:29 Received: 02/17/21 13:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	208-96-8	
Anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	207-08-9	
Chrysene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	206-44-0	
Fluorene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	193-39-5	
Naphthalene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	91-20-3	
Phenanthrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	85-01-8	
Pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%.	19-92	1	02/22/21 09:02	02/22/21 17:09	321-60-8	
Terphenyl-d14 (S)	61	%.	55-109	1	02/22/21 09:02	02/22/21 17:09	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MS **Lab ID: 30405475021** Collected: 02/09/21 13:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**56.1**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:42	7440-38-2	
Lead	**68.0**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:42	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 8.64 Pace Analytical Services - Greensburg							
Arsenic	**0.51**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:23	7440-38-2	
Lead	**0.50**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:23	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**183**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	83-32-9	
Acenaphthylene	**185**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	208-96-8	
Anthracene	**264**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	120-12-7	
Benzo(a)anthracene	**306**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	56-55-3	
Benzo(a)pyrene	**513**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	50-32-8	
Benzo(b)fluoranthene	**824**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	205-99-2	
Benzo(g,h,i)perylene	**331**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	191-24-2	
Benzo(k)fluoranthene	**416**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	207-08-9	
Chrysene	**333**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	218-01-9	
Dibenz(a,h)anthracene	**197**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	53-70-3	
Fluoranthene	**465**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	206-44-0	
Fluorene	**181**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**342**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	193-39-5	
Naphthalene	**264**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	91-20-3	B
Phenanthrene	**350**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	85-01-8	
Pyrene	**406**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	84	%	37-88	1	02/23/21 11:00	02/24/21 17:07	321-60-8	
Terphenyl-d14 (S)	92	%	10-128	1	02/23/21 11:00	02/24/21 17:07	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**6.9**	ug/kg	4.8	1	02/12/21 11:43	02/12/21 19:01	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%	70-130	1	02/12/21 11:43	02/12/21 19:01	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130	1	02/12/21 11:43	02/12/21 19:01	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1	02/12/21 11:43	02/12/21 19:01	17060-07-0	
Dibromofluoromethane (S)	104	%	70-130	1	02/12/21 11:43	02/12/21 19:01	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	**139**	ug/L	50.0	10		02/19/21 12:47	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%	70-130	10		02/19/21 12:47	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MS Lab ID: **30405475021** Collected: 02/09/21 13:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	98	%.	70-130	10		02/19/21 12:47	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130	10		02/19/21 12:47	460-00-4	
Dibromofluoromethane (S)	105	%.	70-130	10		02/19/21 12:47	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**17.5**	%	0.10	1		02/11/21 18:07		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MS(SPLP) Lab ID: **30405475022** Collected: 02/17/21 13:29 Received: 02/17/21 13:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**0.96**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	83-32-9	
Acenaphthylene	**0.94**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	208-96-8	
Anthracene	**0.92**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	120-12-7	
Benzo(a)anthracene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	56-55-3	L2,P2
Benzo(a)pyrene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	205-99-2	
Benzo(g,h,i)perylene	**0.95**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	191-24-2	
Benzo(k)fluoranthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	207-08-9	
Chrysene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	218-01-9	
Dibenz(a,h)anthracene	**0.99**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	53-70-3	
Fluoranthene	**1.0**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	206-44-0	
Fluorene	**0.96**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.0**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	193-39-5	
Naphthalene	**0.94**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	91-20-3	
Phenanthrene	**0.95**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	85-01-8	
Pyrene	**1.0**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	42	%	19-92	1	02/22/21 09:02	02/22/21 17:25	321-60-8	
Terphenyl-d14 (S)	51	%	55-109	1	02/22/21 09:02	02/22/21 17:25	1718-51-0	P2,S0, SR

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MSD **Lab ID: 30405475023** Collected: 02/09/21 13:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**56.4**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:45	7440-38-2	
Lead	**66.6**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:45	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 8.64 Pace Analytical Services - Greensburg							
Arsenic	**0.52**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:25	7440-38-2	
Lead	**0.50**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:25	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**220**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	83-32-9	
Acenaphthylene	**219**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	208-96-8	
Anthracene	**330**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	120-12-7	
Benzo(a)anthracene	**423**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	56-55-3	
Benzo(a)pyrene	**770**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	50-32-8	
Benzo(b)fluoranthene	**1220**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	205-99-2	
Benzo(g,h,i)perylene	**420**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	191-24-2	
Benzo(k)fluoranthene	**551**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	207-08-9	
Chrysene	**481**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	218-01-9	
Dibenz(a,h)anthracene	**224**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	53-70-3	
Fluoranthene	**674**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	206-44-0	
Fluorene	**219**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**444**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	193-39-5	
Naphthalene	**266**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	91-20-3	B
Phenanthrene	**472**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	85-01-8	
Pyrene	**583**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	90 ✓	%.	37-88	1	02/23/21 11:00	02/24/21 17:26	321-60-8	ST
Terphenyl-d14 (S)	97 ✓	%.	10-128	1	02/23/21 11:00	02/24/21 17:26	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**6.8**	ug/kg	4.8	1	02/12/21 11:43	02/12/21 19:26	91-20-3	
Surrogates								
Toluene-d8 (S)	100 ✓	%.	70-130	1	02/12/21 11:43	02/12/21 19:26	2037-26-5	
4-Bromofluorobenzene (S)	99 ✓	%.	70-130	1	02/12/21 11:43	02/12/21 19:26	460-00-4	
1,2-Dichloroethane-d4 (S)	111 ✓	%.	70-130	1	02/12/21 11:43	02/12/21 19:26	17060-07-0	
Dibromofluoromethane (S)	102 ✓	%	70-130	1	02/12/21 11:43	02/12/21 19:26	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	**150**	ug/L	50.0	10		02/19/21 13:09	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	96 ✓	%	70-130	10		02/19/21 13:09	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MSD **Lab ID: 30405475023** Collected: 02/09/21 13:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	102	%.	70-130	10		02/19/21 13:09	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130	10		02/19/21 13:09	460-00-4	
Dibromofluoromethane (S)	103	%	70-130	10		02/19/21 13:09	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**17.7**	%	0.10	1		02/11/21 18:07		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MSD(SPLP) **Lab ID: 30405475024** Collected: 02/17/21 13:29 Received: 02/17/21 13:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	83-32-9	
Acenaphthylene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	208-96-8	
Anthracene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	120-12-7	
Benzo(a)anthracene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	56-55-3	L2,P2
Benzo(a)pyrene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	205-99-2	
Benzo(g,h,i)perylene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	191-24-2	
Benzo(k)fluoranthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	207-08-9	
Chrysene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	218-01-9	
Dibenz(a,h)anthracene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	53-70-3	
Fluoranthene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	206-44-0	
Fluorene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	193-39-5	
Naphthalene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	91-20-3	
Phenanthrene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	85-01-8	
Pyrene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	49	%.	19-92	1	02/22/21 09:02	02/22/21 17:42	321-60-8	
Terphenyl-d14 (S)	57	%.	55-109	1	02/22/21 09:02	02/22/21 17:42	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Equipment Blank 2 **Lab ID: 30405475025** Collected: 02/09/21 13:00 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Arsenic	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:58	7440-38-2	
Lead	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:58	7439-92-1	
Total Hardness by SM2340B-2011	**109**	ug/L		1	02/11/21 15:14	02/12/21 07:58		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	83-32-9	1c
Acenaphthylene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	208-96-8	1c
Anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	207-08-9	1c
Chrysene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	53-70-3	1c
Fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	206-44-0	1c
Fluorene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	193-39-5	1c
Naphthalene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	91-20-3	1c
Phenanthrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	85-01-8	1c
Pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	129-00-0	1c
Surrogates								
2-Fluorobiphenyl (S)	52	%.	19-92	1	02/15/21 13:40	02/16/21 15:56	321-60-8	
Terphenyl-d14 (S)	69	%.	55-109	1	02/15/21 13:40	02/16/21 15:56	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	2.0	1		02/22/21 15:37	91-20-3	
Surrogates								
4-Bromofluorobenzene (S)	104	%.	70-130	1		02/22/21 15:37	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1		02/22/21 15:37	17060-07-0	
Toluene-d8 (S)	95	%.	70-130	1		02/22/21 15:37	2037-26-5	
Dibromofluoromethane (S)	107	%.	70-130	1		02/22/21 15:37	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-10 (2'-8') **Lab ID: 30405475026** Collected: 02/09/21 14:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**6.6**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:56	7440-38-2	
Lead	**12.5**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:56	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	83-32-9	
Acenaphthylene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	208-96-8	
Anthracene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	207-08-9	lp
Chrysene	**8.4**	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	53-70-3	
Fluoranthene	**8.0**	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	206-44-0	
Fluorene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	193-39-5	
Naphthalene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	91-20-3	B
Phenanthrene	**27.1**	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	85-01-8	
Pyrene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	98	%.	37-88	1	02/23/21 11:00	02/24/21 17:46	321-60-8	ST
Terphenyl-d14 (S)	99	%.	10-128	1	02/23/21 11:00	02/24/21 17:46	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	4.9	1	02/12/21 11:43	02/12/21 19:52	91-20-3	
Surrogates								
Toluene-d8 (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 19:52	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 19:52	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 19:52	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130	1	02/12/21 11:43	02/12/21 19:52	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**15.8**	%	0.10	1		02/11/21 18:08		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-9 (0-2) Lab ID: **30405475027** Collected: 02/09/21 16:40 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**45.6**	mg/kg	1.3	1	02/11/21 15:20	02/12/21 09:59	7440-38-2	
Lead	**29.7**	mg/kg	1.3	1	02/11/21 15:20	02/12/21 09:59	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	83-32-9	
Acenaphthylene	**40.8**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	208-96-8	
Anthracene	ND	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	120-12-7	
Benzo(a)anthracene	**39.8**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	56-55-3	
Benzo(a)pyrene	**31.0**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	50-32-8	
Benzo(b)fluoranthene	**77.8**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	205-99-2	Ip
Benzo(g,h,i)perylene	**19.2**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	191-24-2	
Benzo(k)fluoranthene	**76.0**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	207-08-9	Ip
Chrysene	**122**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	218-01-9	
Dibenz(a,h)anthracene	**9.8**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	53-70-3	
Fluoranthene	**82.6**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	206-44-0	
Fluorene	ND	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**10.1**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	193-39-5	
Naphthalene	**337**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	91-20-3	B
Phenanthrene	**352**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	85-01-8	
Pyrene	**74.9**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	81	%	37-88	1	02/23/21 11:00	02/24/21 18:05	321-60-8	
Terphenyl-d14 (S)	56	%	10-128	1	02/23/21 11:00	02/24/21 18:05	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.9	1	02/12/21 11:43	02/12/21 20:18	91-20-3	
Surrogates								
Toluene-d8 (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 20:18	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 20:18	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1	02/12/21 11:43	02/12/21 20:18	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 20:18	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**23.1**	%	0.10	1		02/11/21 18:08		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-9 (0-2) Dup **Lab ID: 30405475028** Collected: 02/09/21 16:40 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**15.7**	mg/kg	1.3	1	02/11/21 15:20	02/12/21 10:02	7440-38-2	
Lead	**19.2**	mg/kg	1.3	1	02/11/21 15:20	02/12/21 10:02	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	83-32-9	
Acenaphthylene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	208-96-8	
Anthracene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	120-12-7	
Benzo(a)anthracene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	50-32-8	
Benzo(b)fluoranthene	**9.4**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	191-24-2	
Benzo(k)fluoranthene	**9.2**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	207-08-9	Ip
Chrysene	**13.5**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	53-70-3	
Fluoranthene	**9.5**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	206-44-0	
Fluorene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	193-39-5	
Naphthalene	**10.0**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	91-20-3	B
Phenanthrene	**30.5**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	85-01-8	
Pyrene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%.	37-88	1	02/23/21 11:00	02/24/21 18:44	321-60-8	
Terphenyl-d14 (S)	90	%.	10-128	1	02/23/21 11:00	02/24/21 18:44	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	7.7	1	02/12/21 11:43	02/12/21 20:44	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 20:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 20:44	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1	02/12/21 11:43	02/12/21 20:44	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 20:44	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**27.2**	%	0.10	1		02/11/21 18:08		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-9 (2-8) **Lab ID: 30405475029** Collected: 02/09/21 16:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**11.8**	mg/kg	0.99	1	02/11/21 15:20	02/12/21 10:05	7440-38-2	
Lead	**13.3**	mg/kg	0.99	1	02/11/21 15:20	02/12/21 10:05	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	83-32-9	
Acenaphthylene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	208-96-8	
Anthracene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	50-32-8	
Benzo(b)fluoranthene	**32.6**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	191-24-2	
Benzo(k)fluoranthene	**31.9**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	207-08-9	lp
Chrysene	**56.4**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	53-70-3	
Fluoranthene	**19.7**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	206-44-0	
Fluorene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	193-39-5	
Naphthalene	**8.8**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	91-20-3	B
Phenanthrene	**148**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	85-01-8	
Pyrene	**18.5**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	98	%.	37-88	1	02/23/21 11:00	02/24/21 19:03	321-60-8	ST
Terphenyl-d14 (S)	103	%.	10-128	1	02/23/21 11:00	02/24/21 19:03	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	3.9	1	02/12/21 11:43	02/12/21 21:10	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 21:10	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 21:10	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 21:10	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 21:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**11.6**	%	0.10	1		02/11/21 18:08		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Field Blank Lab ID: **30405475030** Collected: 02/09/21 16:50 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Arsenic	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 08:15	7440-38-2	
Lead	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 08:15	7439-92-1	
Total Hardness by SM2340B-2011	**40.2**	ug/L		1	02/11/21 15:14	02/12/21 08:15		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	83-32-9	1c
Acenaphthylene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	208-96-8	1c
Anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	207-08-9	1c
Chrysene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	53-70-3	1c
Fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	206-44-0	1c
Fluorene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	193-39-5	1c
Naphthalene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	91-20-3	1c
Phenanthrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	85-01-8	1c
Pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	129-00-0	1c
Surrogates								
2-Fluorobiphenyl (S)	49	%.	19-92	1	02/15/21 13:40	02/16/21 16:13	321-60-8	
Terphenyl-d14 (S)	62	%.	55-109	1	02/15/21 13:40	02/16/21 16:13	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	2.0	1		02/22/21 15:12	91-20-3	
Surrogates								
4-Bromofluorobenzene (S)	105	%.	70-130	1		02/22/21 15:12	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130	1		02/22/21 15:12	17060-07-0	
Toluene-d8 (S)	94	%.	70-130	1		02/22/21 15:12	2037-26-5	
Dibromofluoromethane (S)	109	%.	70-130	1		02/22/21 15:12	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Trip Blank 1 **Lab ID: 30405475031** Collected: 02/09/21 00:01 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	2.0	1		02/22/21 14:46	91-20-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%.	70-130	1		02/22/21 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1		02/22/21 14:46	17060-07-0	
Toluene-d8 (S)	97	%.	70-130	1		02/22/21 14:46	2037-26-5	
Dibromofluoromethane (S)	106	%.	70-130	1		02/22/21 14:46	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-02(0'-2') Lab ID: **30405879001** Collected: 02/10/21 14:35 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 10.77 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:34	7440-38-2	
Lead	ND	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:34	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		02/19/21 15:45	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		02/19/21 15:45	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		02/19/21 15:45	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	90	%.	70-130		10		02/19/21 15:45	17060-07-0	
Toluene-d8 (S)	103	%.	70-130		10		02/19/21 15:45	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	70-130		10		02/19/21 15:45	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		02/19/21 15:45	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**11.6**	%	0.10	0.10	1		02/16/21 18:00		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-02(0'-2')(SPLP) **Lab ID: 30405879002** Collected: 02/17/21 11:44 Received: 02/17/21 11:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 19:39	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:39	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 19:39	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 19:39	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:39	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:39	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 19:39	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:39	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:39	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 19:39	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56 ✓	%.	19-92		1	02/22/21 09:02	02/22/21 19:39	321-60-8	
Terphenyl-d14 (S)	74 ✓	%.	55-109		1	02/22/21 09:02	02/22/21 19:39	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-02(2'-8') **Lab ID: 30405879003** Collected: 02/10/21 14:45 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**11.3**	mg/kg	1.1	0.45	1	02/16/21 15:27	02/17/21 11:48	7440-38-2	
Lead	**20.2**	mg/kg	1.1	0.52	1	02/16/21 15:27	02/17/21 11:48	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.9	0.72	1	02/24/21 10:37	02/25/21 21:28	83-32-9	
Acenaphthylene	ND	ug/kg	7.9	0.57	1	02/24/21 10:37	02/25/21 21:28	208-96-8	
Anthracene	ND	ug/kg	7.9	0.72	1	02/24/21 10:37	02/25/21 21:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.9	0.93	1	02/24/21 10:37	02/25/21 21:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.9	0.49	1	02/24/21 10:37	02/25/21 21:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.9	0.95	1	02/24/21 10:37	02/25/21 21:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1.2	1	02/24/21 10:37	02/25/21 21:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.9	1.3	1	02/24/21 10:37	02/25/21 21:28	207-08-9	
Chrysene	ND	ug/kg	7.9	0.41	1	02/24/21 10:37	02/25/21 21:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1.8	1	02/24/21 10:37	02/25/21 21:28	53-70-3	
Fluoranthene	ND	ug/kg	7.9	0.60	1	02/24/21 10:37	02/25/21 21:28	206-44-0	
Fluorene	ND	ug/kg	7.9	0.73	1	02/24/21 10:37	02/25/21 21:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1.5	1	02/24/21 10:37	02/25/21 21:28	193-39-5	
Naphthalene	ND	ug/kg	7.9	1.5	1	02/24/21 10:37	02/25/21 21:28	91-20-3	
Phenanthrene	**13.2**	ug/kg	7.9	0.70	1	02/24/21 10:37	02/25/21 21:28	85-01-8	R1
Pyrene	ND	ug/kg	7.9	0.89	1	02/24/21 10:37	02/25/21 21:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	89 ✓	%.	37-88		1	02/24/21 10:37	02/25/21 21:28	321-60-8	ST
Terphenyl-d14 (S)	100 ✓	%.	10-128		1	02/24/21 10:37	02/25/21 21:28	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.6	0.86	1	02/19/21 10:38	02/19/21 14:11	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 14:11	2037-26-5	
4-Bromofluorobenzene (S)	97 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 14:11	460-00-4	
1,2-Dichloroethane-d4 (S)	108 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 14:11	17060-07-0	
Dibromofluoromethane (S)	100 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 14:11	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**15.9**	%	0.10	0.10	1		02/16/21 18:00		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-03(0'-2') **Lab ID: 30405879004** Collected: 02/10/21 13:00 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**78.4**	mg/kg	1.0	0.41	1	02/16/21 15:27	02/17/21 11:51	7440-38-2	
Lead	**18.7**	mg/kg	1.0	0.47	1	02/16/21 15:27	02/17/21 11:51	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**38.5**	ug/kg	7.8	0.70	1	02/24/21 10:37	02/25/21 22:21	83-32-9	
Acenaphthylene	**101**	ug/kg	7.8	0.56	1	02/24/21 10:37	02/25/21 22:21	208-96-8	
Anthracene	**102**	ug/kg	7.8	0.71	1	02/24/21 10:37	02/25/21 22:21	120-12-7	
Benzo(a)anthracene	**123**	ug/kg	7.8	0.91	1	02/24/21 10:37	02/25/21 22:21	56-55-3	
Benzo(a)pyrene	**139**	ug/kg	7.8	0.49	1	02/24/21 10:37	02/25/21 22:21	50-32-8	
Benzo(b)fluoranthene	**323**	ug/kg	7.8	0.93	1	02/24/21 10:37	02/25/21 22:21	205-99-2	
Benzo(g,h,i)perylene	**213**	ug/kg	7.8	1.2	1	02/24/21 10:37	02/25/21 22:21	191-24-2	
Benzo(k)fluoranthene	**114**	ug/kg	7.8	1.3	1	02/24/21 10:37	02/25/21 22:21	207-08-9	
Chrysene	**277**	ug/kg	7.8	0.40	1	02/24/21 10:37	02/25/21 22:21	218-01-9	
Dibenz(a,h)anthracene	**49.2**	ug/kg	7.8	1.7	1	02/24/21 10:37	02/25/21 22:21	53-70-3	
Fluoranthene	**246**	ug/kg	7.8	0.59	1	02/24/21 10:37	02/25/21 22:21	206-44-0	
Fluorene	**50.4**	ug/kg	7.8	0.72	1	02/24/21 10:37	02/25/21 22:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**111**	ug/kg	7.8	1.5	1	02/24/21 10:37	02/25/21 22:21	193-39-5	
Naphthalene	**779**	ug/kg	7.8	1.5	1	02/24/21 10:37	02/25/21 22:21	91-20-3	
Phenanthrene	**734**	ug/kg	7.8	0.69	1	02/24/21 10:37	02/25/21 22:21	85-01-8	
Pyrene	**225**	ug/kg	7.8	0.87	1	02/24/21 10:37	02/25/21 22:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77 ✓	%.	37-88		1	02/24/21 10:37	02/25/21 22:21	321-60-8	
Terphenyl-d14 (S)	72 ✓	%.	10-128		1	02/24/21 10:37	02/25/21 22:21	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.4	1.0	1	02/19/21 10:38	02/19/21 14:37	91-20-3	1c
Surrogates									
Toluene-d8 (S)	98 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 14:37	2037-26-5	
4-Bromofluorobenzene (S)	100 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 14:37	460-00-4	
1,2-Dichloroethane-d4 (S)	109 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 14:37	17060-07-0	
Dibromofluoromethane (S)	100 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 14:37	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**16.1**	%	0.10	0.10	1		02/16/21 18:00		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-03(2'-8') **Lab ID: 30405879005** Collected: 02/10/21 13:10 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**14.6**	mg/kg	1.1	0.41	1	02/16/21 15:27	02/17/21 11:53	7440-38-2	
Lead	**16.0**	mg/kg	1.1	0.48	1	02/16/21 15:27	02/17/21 11:53	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.0	0.72	1	02/24/21 10:37	02/25/21 22:39	83-32-9	
Acenaphthylene	ND	ug/kg	8.0	0.57	1	02/24/21 10:37	02/25/21 22:39	208-96-8	
Anthracene	ND	ug/kg	8.0	0.72	1	02/24/21 10:37	02/25/21 22:39	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.0	0.94	1	02/24/21 10:37	02/25/21 22:39	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.0	0.50	1	02/24/21 10:37	02/25/21 22:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.0	0.96	1	02/24/21 10:37	02/25/21 22:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.0	1.2	1	02/24/21 10:37	02/25/21 22:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.0	1.3	1	02/24/21 10:37	02/25/21 22:39	207-08-9	
Chrysene	ND	ug/kg	8.0	0.41	1	02/24/21 10:37	02/25/21 22:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.0	1.8	1	02/24/21 10:37	02/25/21 22:39	53-70-3	
Fluoranthene	ND	ug/kg	8.0	0.61	1	02/24/21 10:37	02/25/21 22:39	206-44-0	
Fluorene	ND	ug/kg	8.0	0.74	1	02/24/21 10:37	02/25/21 22:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.0	1.5	1	02/24/21 10:37	02/25/21 22:39	193-39-5	
Naphthalene	ND	ug/kg	8.0	1.5	1	02/24/21 10:37	02/25/21 22:39	91-20-3	
Phenanthrene	**12.0**	ug/kg	8.0	0.70	1	02/24/21 10:37	02/25/21 22:39	85-01-8	
Pyrene	ND	ug/kg	8.0	0.90	1	02/24/21 10:37	02/25/21 22:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92 ✓	%.	37-88		1	02/24/21 10:37	02/25/21 22:39	321-60-8	ST
Terphenyl-d14 (S)	101	%.	10-128		1	02/24/21 10:37	02/25/21 22:39	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.4	0.82	1	02/19/21 10:38	02/19/21 15:03	91-20-3	1c
Surrogates									
Toluene-d8 (S)	98 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 15:03	2037-26-5	
4-Bromofluorobenzene (S)	99 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 15:03	460-00-4	
1,2-Dichloroethane-d4 (S)	109 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 15:03	17060-07-0	
Dibromofluoromethane (S)	102 ✓	%.	70-130		1	02/19/21 10:38	02/19/21 15:03	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**17.0**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-03(2'-8')DUP **Lab ID: 30405879006** Collected: 02/10/21 13:10 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.2**	mg/kg	1.1	0.42	1	02/16/21 15:27	02/17/21 11:56	7440-38-2	
Lead	**6.3**	mg/kg	1.1	0.49	1	02/16/21 15:27	02/17/21 11:56	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.1	0.73	1	02/24/21 10:37	02/25/21 22:57	83-32-9	
Acenaphthylene	ND	ug/kg	8.1	0.58	1	02/24/21 10:37	02/25/21 22:57	208-96-8	
Anthracene	ND	ug/kg	8.1	0.73	1	02/24/21 10:37	02/25/21 22:57	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.1	0.95	1	02/24/21 10:37	02/25/21 22:57	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.1	0.50	1	02/24/21 10:37	02/25/21 22:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.1	0.97	1	02/24/21 10:37	02/25/21 22:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.1	1.2	1	02/24/21 10:37	02/25/21 22:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.1	1.4	1	02/24/21 10:37	02/25/21 22:57	207-08-9	
Chrysene	ND	ug/kg	8.1	0.42	1	02/24/21 10:37	02/25/21 22:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.1	1.8	1	02/24/21 10:37	02/25/21 22:57	53-70-3	
Fluoranthene	**19.7**	ug/kg	8.1	0.61	1	02/24/21 10:37	02/25/21 22:57	206-44-0	
Fluorene	ND	ug/kg	8.1	0.75	1	02/24/21 10:37	02/25/21 22:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.1	1.5	1	02/24/21 10:37	02/25/21 22:57	193-39-5	
Naphthalene	ND	ug/kg	8.1	1.6	1	02/24/21 10:37	02/25/21 22:57	91-20-3	
Phenanthrene	**34.6**	ug/kg	8.1	0.71	1	02/24/21 10:37	02/25/21 22:57	85-01-8	
Pyrene	**13.5**	ug/kg	8.1	0.91	1	02/24/21 10:37	02/25/21 22:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92	%.	37-88		1	02/24/21 10:37	02/25/21 22:57	321-60-8	ST
Terphenyl-d14 (S)	98	%.	10-128		1	02/24/21 10:37	02/25/21 22:57	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.8	0.91	1	02/19/21 10:38	02/19/21 15:29	91-20-3	1c
Surrogates									
Toluene-d8 (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 15:29	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 15:29	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	02/19/21 10:38	02/19/21 15:29	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	02/19/21 10:38	02/19/21 15:29	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**17.2**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-04(0'-2') **Lab ID: 30405879007** Collected: 02/10/21 15:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**4.5**	mg/kg	1.1	0.44	1	02/16/21 15:27	02/17/21 11:59	7440-38-2	
Lead	**9.6**	mg/kg	1.1	0.50	1	02/16/21 15:27	02/17/21 11:59	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.6	0.69	1	02/24/21 10:37	02/25/21 23:14	83-32-9	
Acenaphthylene	ND	ug/kg	7.6	0.54	1	02/24/21 10:37	02/25/21 23:14	208-96-8	
Anthracene	ND	ug/kg	7.6	0.69	1	02/24/21 10:37	02/25/21 23:14	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.6	0.89	1	02/24/21 10:37	02/25/21 23:14	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.6	0.47	1	02/24/21 10:37	02/25/21 23:14	50-32-8	
Benzo(b)fluoranthene	**13.9**	ug/kg	7.6	0.91	1	02/24/21 10:37	02/25/21 23:14	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.6	1.1	1	02/24/21 10:37	02/25/21 23:14	191-24-2	
Benzo(k)fluoranthene	**13.2**	ug/kg	7.6	1.3	1	02/24/21 10:37	02/25/21 23:14	207-08-9	lp
Chrysene	**19.1**	ug/kg	7.6	0.39	1	02/24/21 10:37	02/25/21 23:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.6	1.7	1	02/24/21 10:37	02/25/21 23:14	53-70-3	
Fluoranthene	**14.1**	ug/kg	7.6	0.58	1	02/24/21 10:37	02/25/21 23:14	206-44-0	
Fluorene	ND	ug/kg	7.6	0.70	1	02/24/21 10:37	02/25/21 23:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.6	1.4	1	02/24/21 10:37	02/25/21 23:14	193-39-5	
Naphthalene	**18.3**	ug/kg	7.6	1.5	1	02/24/21 10:37	02/25/21 23:14	91-20-3	
Phenanthrene	**55.7**	ug/kg	7.6	0.67	1	02/24/21 10:37	02/25/21 23:14	85-01-8	
Pyrene	**13.5**	ug/kg	7.6	0.85	1	02/24/21 10:37	02/25/21 23:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92	%.	37-88		1	02/24/21 10:37	02/25/21 23:14	321-60-8	ST
Terphenyl-d14 (S)	100	%.	10-128		1	02/24/21 10:37	02/25/21 23:14	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.4	0.84	1	02/19/21 10:38	02/19/21 15:55	91-20-3	1c
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	02/19/21 10:38	02/19/21 15:55	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 15:55	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	02/19/21 10:38	02/19/21 15:55	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	02/19/21 10:38	02/19/21 15:55	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**13.6**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-04(2'-8') **Lab ID: 30405879008** Collected: 02/10/21 16:00 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**30.1**	mg/kg	1.1	0.43	1	02/16/21 15:27	02/17/21 12:08	7440-38-2	
Lead	**23.3**	mg/kg	1.1	0.50	1	02/16/21 15:27	02/17/21 12:08	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**67.3**	ug/kg	7.6	0.68	1	02/24/21 10:37	02/25/21 23:32	83-32-9	
Acenaphthylene	ND	ug/kg	7.6	0.54	1	02/24/21 10:37	02/25/21 23:32	208-96-8	
Anthracene	ND	ug/kg	7.6	0.69	1	02/24/21 10:37	02/25/21 23:32	120-12-7	
Benzo(a)anthracene	**151**	ug/kg	7.6	0.89	1	02/24/21 10:37	02/25/21 23:32	56-55-3	
Benzo(a)pyrene	**127**	ug/kg	7.6	0.47	1	02/24/21 10:37	02/25/21 23:32	50-32-8	
Benzo(b)fluoranthene	**246**	ug/kg	7.6	0.91	1	02/24/21 10:37	02/25/21 23:32	205-99-2	lp
Benzo(g,h,i)perylene	**46.2**	ug/kg	7.6	1.1	1	02/24/21 10:37	02/25/21 23:32	191-24-2	
Benzo(k)fluoranthene	**234**	ug/kg	7.6	1.3	1	02/24/21 10:37	02/25/21 23:32	207-08-9	lp
Chrysene	**448**	ug/kg	7.6	0.39	1	02/24/21 10:37	02/25/21 23:32	218-01-9	
Dibenz(a,h)anthracene	**41.3**	ug/kg	7.6	1.7	1	02/24/21 10:37	02/25/21 23:32	53-70-3	
Fluoranthene	**268**	ug/kg	7.6	0.57	1	02/24/21 10:37	02/25/21 23:32	206-44-0	
Fluorene	**144**	ug/kg	75.7	7.0	10	02/24/21 10:37	02/26/21 14:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**23.7**	ug/kg	7.6	1.4	1	02/24/21 10:37	02/25/21 23:32	193-39-5	
Naphthalene	**345**	ug/kg	7.6	1.5	1	02/24/21 10:37	02/25/21 23:32	91-20-3	
Phenanthrene	**1580**	ug/kg	75.7	6.7	10	02/24/21 10:37	02/26/21 14:04	85-01-8	
Pyrene	**263**	ug/kg	7.6	0.85	1	02/24/21 10:37	02/25/21 23:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%.	37-88		10	02/24/21 10:37	02/26/21 14:04	321-60-8	S4
Terphenyl-d14 (S)	96	%.	10-128		10	02/24/21 10:37	02/26/21 14:04	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.1	0.96	1	02/19/21 10:38	02/19/21 16:21	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 16:21	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 16:21	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	02/19/21 10:38	02/19/21 16:21	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	02/19/21 10:38	02/19/21 16:21	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**12.5**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2') **Lab ID: 30405879009** Collected: 02/10/21 11:20 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.92 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:37	7440-38-2	
Lead	ND	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:37	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		02/19/21 13:32	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		02/19/21 13:32	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		02/19/21 13:32	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%.	70-130		10		02/19/21 13:32	17060-07-0	
Toluene-d8 (S)	94	%.	70-130		10		02/19/21 13:32	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		10		02/19/21 13:32	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		02/19/21 13:32	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**13.5**	%	0.10	0.10	1		02/16/21 18:01		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')(SPLP) Lab ID: **30405879010** Collected: 02/17/21 13:07 Received: 02/17/21 13:07 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 17:59	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 17:59	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 17:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 17:59	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 17:59	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 17:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 17:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 17:59	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 17:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 17:59	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 17:59	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 17:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 17:59	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 17:59	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 17:59	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 17:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%.	19-92		1	02/22/21 09:02	02/22/21 17:59	321-60-8	
Terphenyl-d14 (S)	60	%.	55-109		1	02/22/21 09:02	02/22/21 17:59	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')MS **Lab ID: 30405879011** Collected: 02/10/21 11:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.92 Pace Analytical Services - Greensburg								
Arsenic	**0.51**	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:42	7440-38-2	
Lead	**0.50**	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:42	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	**173**	ug/L	50.0	7.8	10		02/19/21 13:54	108-90-7	
Naphthalene	**129**	ug/L	50.0	9.4	10		02/19/21 13:54	91-20-3	
Tetrachloroethene	**187**	ug/L	50.0	17.3	10		02/19/21 13:54	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%.	70-130		10		02/19/21 13:54	17060-07-0	
Toluene-d8 (S)	100	%.	70-130		10		02/19/21 13:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		10		02/19/21 13:54	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		02/19/21 13:54	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**18.4**	%	0.10	0.10	1		02/16/21 18:01		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')MS(SPLP) **Lab ID: 30405879012** Collected: 02/17/21 13:07 Received: 02/17/21 13:07 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	1.0	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 18:16	83-32-9	
Acenaphthylene	0.99	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:16	208-96-8	
Anthracene	1.1	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:16	120-12-7	
Benzo(a)anthracene	1.4	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 18:16	56-55-3	L2,P2
Benzo(a)pyrene	1.2	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 18:16	50-32-8	L2,P2
Benzo(b)fluoranthene	1.3	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:16	205-99-2	
Benzo(g,h,i)perylene	1.1	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:16	191-24-2	
Benzo(k)fluoranthene	1.3	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:16	207-08-9	
Chrysene	1.4	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:16	218-01-9	
Dibenz(a,h)anthracene	1.2	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:16	53-70-3	
Fluoranthene	1.3	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 18:16	206-44-0	
Fluorene	1.0	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:16	86-73-7	
Indeno(1,2,3-cd)pyrene	1.2	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:16	193-39-5	
Naphthalene	1.0	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:16	91-20-3	
Phenanthrene	1.1	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 18:16	85-01-8	
Pyrene	1.3	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46 ✓	%	19-92		1	02/22/21 09:02	02/22/21 18:16	321-60-8	
Terphenyl-d14 (S)	68 ✓	%	55-109		1	02/22/21 09:02	02/22/21 18:16	1718-51-0	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')MSD **Lab ID: 30405879013** Collected: 02/10/21 11:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.92 Pace Analytical Services - Greensburg								
Arsenic	**0.52**	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:45	7440-38-2	
Lead	**0.51**	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:45	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	**187**	ug/L	50.0	7.8	10		02/19/21 14:16	108-90-7	
Naphthalene	**155**	ug/L	50.0	9.4	10		02/19/21 14:16	91-20-3	
Tetrachloroethene	**198**	ug/L	50.0	17.3	10		02/19/21 14:16	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%.	70-130		10		02/19/21 14:16	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		10		02/19/21 14:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	70-130		10		02/19/21 14:16	460-00-4	
Dibromofluoromethane (S)	103	%.	70-130		10		02/19/21 14:16	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**11.7**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')MSD(SPLP) **Lab ID: 30405879014** Collected: 02/17/21 13:07 Received: 02/17/21 13:07 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	1.2	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 18:32	83-32-9	
Acenaphthylene	1.1	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:32	208-96-8	
Anthracene	1.1	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:32	120-12-7	
Benzo(a)anthracene	1.3	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 18:32	56-55-3	L2,P2
Benzo(a)pyrene	1.2	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 18:32	50-32-8	L2,P2
Benzo(b)fluoranthene	1.2	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:32	205-99-2	
Benzo(g,h,i)perylene	1.1	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:32	191-24-2	
Benzo(k)fluoranthene	1.2	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:32	207-08-9	
Chrysene	1.3	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:32	218-01-9	
Dibenz(a,h)anthracene	1.1	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:32	53-70-3	
Fluoranthene	1.2	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 18:32	206-44-0	
Fluorene	1.2	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:32	86-73-7	
Indeno(1,2,3-cd)pyrene	1.2	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:32	193-39-5	
Naphthalene	1.2	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:32	91-20-3	
Phenanthrene	1.2	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 18:32	85-01-8	
Pyrene	1.3	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%.	19-92		1	02/22/21 09:02	02/22/21 18:32	321-60-8	
Terphenyl-d14 (S)	63	%.	55-109		1	02/22/21 09:02	02/22/21 18:32	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(2'-8') **Lab ID: 30405879015** Collected: 02/10/21 12:05 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**11.8**	mg/kg	1.1	0.41	1	02/16/21 15:27	02/17/21 12:10	7440-38-2	
Lead	**11.5**	mg/kg	1.1	0.48	1	02/16/21 15:27	02/17/21 12:10	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.7	0.69	1	02/24/21 10:37	02/25/21 23:50	83-32-9	
Acenaphthylene	ND	ug/kg	7.7	0.55	1	02/24/21 10:37	02/25/21 23:50	208-96-8	
Anthracene	ND	ug/kg	7.7	0.69	1	02/24/21 10:37	02/25/21 23:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.7	0.90	1	02/24/21 10:37	02/25/21 23:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.7	0.48	1	02/24/21 10:37	02/25/21 23:50	50-32-8	
Benzo(b)fluoranthene	**8.8**	ug/kg	7.7	0.92	1	02/24/21 10:37	02/25/21 23:50	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.7	1.2	1	02/24/21 10:37	02/25/21 23:50	191-24-2	
Benzo(k)fluoranthene	**8.3**	ug/kg	7.7	1.3	1	02/24/21 10:37	02/25/21 23:50	207-08-9	lp
Chrysene	**20.2**	ug/kg	7.7	0.40	1	02/24/21 10:37	02/25/21 23:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.7	1.7	1	02/24/21 10:37	02/25/21 23:50	53-70-3	
Fluoranthene	ND	ug/kg	7.7	0.58	1	02/24/21 10:37	02/25/21 23:50	206-44-0	
Fluorene	ND	ug/kg	7.7	0.71	1	02/24/21 10:37	02/25/21 23:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.7	1.5	1	02/24/21 10:37	02/25/21 23:50	193-39-5	
Naphthalene	ND	ug/kg	7.7	1.5	1	02/24/21 10:37	02/25/21 23:50	91-20-3	
Phenanthrene	**63.1**	ug/kg	7.7	0.67	1	02/24/21 10:37	02/25/21 23:50	85-01-8	
Pyrene	ND	ug/kg	7.7	0.86	1	02/24/21 10:37	02/25/21 23:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82	%.	37-88		1	02/24/21 10:37	02/25/21 23:50	321-60-8	
Terphenyl-d14 (S)	94	%.	10-128		1	02/24/21 10:37	02/25/21 23:50	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.2	0.79	1	02/19/21 10:38	02/19/21 16:46	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 16:46	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 16:46	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	02/19/21 10:38	02/19/21 16:46	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	02/19/21 10:38	02/19/21 16:46	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**12.6**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Equipment Blank 3 Lab ID: **30405879016** Collected: 02/10/21 12:45 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:10	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:10	7439-92-1	
Total Hardness by SM2340B-2011	79.9	ug/L			1	02/16/21 15:18	02/17/21 10:10		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 16:30	83-32-9	1c
Acenaphthylene	ND	ug/L	0.12	0.026	1	02/15/21 13:40	02/16/21 16:30	208-96-8	1c
Anthracene	ND	ug/L	0.12	0.027	1	02/15/21 13:40	02/16/21 16:30	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.12	0.099	1	02/15/21 13:40	02/16/21 16:30	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.12	0.032	1	02/15/21 13:40	02/16/21 16:30	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.12	0.051	1	02/15/21 13:40	02/16/21 16:30	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.12	0.037	1	02/15/21 13:40	02/16/21 16:30	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.12	0.051	1	02/15/21 13:40	02/16/21 16:30	207-08-9	1c
Chrysene	ND	ug/L	0.12	0.040	1	02/15/21 13:40	02/16/21 16:30	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.12	0.038	1	02/15/21 13:40	02/16/21 16:30	53-70-3	1c
Fluoranthene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 16:30	206-44-0	1c
Fluorene	ND	ug/L	0.12	0.027	1	02/15/21 13:40	02/16/21 16:30	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	0.041	1	02/15/21 13:40	02/16/21 16:30	193-39-5	1c
Naphthalene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 16:30	91-20-3	1c
Phenanthrene	ND	ug/L	0.12	0.033	1	02/15/21 13:40	02/16/21 16:30	85-01-8	1c
Pyrene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 16:30	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	37	%.	19-92		1	02/15/21 13:40	02/16/21 16:30	321-60-8	
Terphenyl-d14 (S)	46	%.	55-109		1	02/15/21 13:40	02/16/21 16:30	1718-51-0	P2,SR
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 13:25	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		02/23/21 13:25	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%.	70-130		1		02/23/21 13:25	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		02/23/21 13:25	2037-26-5	
Dibromofluoromethane (S)	109	%.	70-130		1		02/23/21 13:25	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Field Blank 3 Lab ID: **30405879017** Collected: 02/10/21 12:45 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:13	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:13	7439-92-1	
Total Hardness by SM2340B-2011	19.0	ug/L			1	02/16/21 15:18	02/17/21 10:13		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 16:46	83-32-9	1c
Acenaphthylene	ND	ug/L	0.12	0.026	1	02/15/21 13:40	02/16/21 16:46	208-96-8	1c
Anthracene	ND	ug/L	0.12	0.027	1	02/15/21 13:40	02/16/21 16:46	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.12	0.10	1	02/15/21 13:40	02/16/21 16:46	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.12	0.032	1	02/15/21 13:40	02/16/21 16:46	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 16:46	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.12	0.038	1	02/15/21 13:40	02/16/21 16:46	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.12	0.051	1	02/15/21 13:40	02/16/21 16:46	207-08-9	1c
Chrysene	ND	ug/L	0.12	0.040	1	02/15/21 13:40	02/16/21 16:46	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.12	0.038	1	02/15/21 13:40	02/16/21 16:46	53-70-3	1c
Fluoranthene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 16:46	206-44-0	1c
Fluorene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 16:46	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	0.041	1	02/15/21 13:40	02/16/21 16:46	193-39-5	1c
Naphthalene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 16:46	91-20-3	1c
Phenanthrene	ND	ug/L	0.12	0.033	1	02/15/21 13:40	02/16/21 16:46	85-01-8	1c
Pyrene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 16:46	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	40	%.	19-92		1	02/15/21 13:40	02/16/21 16:46	321-60-8	
Terphenyl-d14 (S)	67	%.	55-109		1	02/15/21 13:40	02/16/21 16:46	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 13:52	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	70-130		1		02/23/21 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		02/23/21 13:52	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		02/23/21 13:52	2037-26-5	
Dibromofluoromethane (S)	102	%.	70-130		1		02/23/21 13:52	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Trip Blank 2 **Lab ID: 30405879018** Collected: 02/10/21 00:01 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 14:20	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	70-130		1		02/23/21 14:20	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%.	70-130		1		02/23/21 14:20	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		1		02/23/21 14:20	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		02/23/21 14:20	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Trip Blank 3 **Lab ID: 30405879019** Collected: 02/10/21 00:01 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 14:47	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	110	%.	70-130		1		02/23/21 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%.	70-130		1		02/23/21 14:47	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		1		02/23/21 14:47	2037-26-5	
Dibromofluoromethane (S)	101	%.	70-130		1		02/23/21 14:47	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-06 (0'-2') **Lab ID: 30405879020** Collected: 02/11/21 11:30 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.3**	mg/kg	1.1	0.41	1	02/16/21 15:27	02/17/21 12:13	7440-38-2	
Lead	**20.9**	mg/kg	1.1	0.46	1	02/16/21 15:27	02/17/21 12:13	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**12.8**	ug/kg	7.3	0.66	1	02/24/21 10:37	02/26/21 00:07	83-32-9	
Acenaphthylene	**24.7**	ug/kg	7.3	0.53	1	02/24/21 10:37	02/26/21 00:07	208-96-8	
Anthracene	ND	ug/kg	7.3	0.67	1	02/24/21 10:37	02/26/21 00:07	120-12-7	
Benzo(a)anthracene	**48.6**	ug/kg	7.3	0.86	1	02/24/21 10:37	02/26/21 00:07	56-55-3	
Benzo(a)pyrene	**43.4**	ug/kg	7.3	0.46	1	02/24/21 10:37	02/26/21 00:07	50-32-8	
Benzo(b)fluoranthene	**90.4**	ug/kg	7.3	0.88	1	02/24/21 10:37	02/26/21 00:07	205-99-2	
Benzo(g,h,i)perylene	**27.3**	ug/kg	7.3	1.1	1	02/24/21 10:37	02/26/21 00:07	191-24-2	
Benzo(k)fluoranthene	**19.6**	ug/kg	7.3	1.2	1	02/24/21 10:37	02/26/21 00:07	207-08-9	
Chrysene	**127**	ug/kg	7.3	0.38	1	02/24/21 10:37	02/26/21 00:07	218-01-9	
Dibenz(a,h)anthracene	**15.7**	ug/kg	7.3	1.6	1	02/24/21 10:37	02/26/21 00:07	53-70-3	
Fluoranthene	**80.5**	ug/kg	7.3	0.56	1	02/24/21 10:37	02/26/21 00:07	206-44-0	
Fluorene	**21.7**	ug/kg	7.3	0.68	1	02/24/21 10:37	02/26/21 00:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**18.5**	ug/kg	7.3	1.4	1	02/24/21 10:37	02/26/21 00:07	193-39-5	
Naphthalene	**55.1**	ug/kg	7.3	1.4	1	02/24/21 10:37	02/26/21 00:07	91-20-3	
Phenanthrene	**315**	ug/kg	7.3	0.65	1	02/24/21 10:37	02/26/21 00:07	85-01-8	
Pyrene	**84.4**	ug/kg	7.3	0.82	1	02/24/21 10:37	02/26/21 00:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	37-88		1	02/24/21 10:37	02/26/21 00:07	321-60-8	ST
Terphenyl-d14 (S)	99	%.	10-128		1	02/24/21 10:37	02/26/21 00:07	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.2	0.98	1	02/19/21 10:38	02/19/21 17:12	91-20-3	1c
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 17:12	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	70-130		1	02/19/21 10:38	02/19/21 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130		1	02/19/21 10:38	02/19/21 17:12	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 17:12	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**10.8**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-06 (2'-8') **Lab ID: 30405879021** Collected: 02/11/21 11:40 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**2.8**	mg/kg	1.0	0.41	1	02/16/21 15:27	02/17/21 12:16	7440-38-2	
Lead	**4.4**	mg/kg	1.0	0.47	1	02/16/21 15:27	02/17/21 12:16	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**25.5**	ug/kg	7.2	0.65	1	02/24/21 10:37	02/26/21 00:25	83-32-9	
Acenaphthylene	**24.3**	ug/kg	7.2	0.52	1	02/24/21 10:37	02/26/21 00:25	208-96-8	
Anthracene	**32.5**	ug/kg	7.2	0.66	1	02/24/21 10:37	02/26/21 00:25	120-12-7	
Benzo(a)anthracene	**71.0**	ug/kg	7.2	0.85	1	02/24/21 10:37	02/26/21 00:25	56-55-3	
Benzo(a)pyrene	**83.9**	ug/kg	7.2	0.45	1	02/24/21 10:37	02/26/21 00:25	50-32-8	
Benzo(b)fluoranthene	**185**	ug/kg	7.2	0.87	1	02/24/21 10:37	02/26/21 00:25	205-99-2	
Benzo(g,h,i)perylene	**57.1**	ug/kg	7.2	1.1	1	02/24/21 10:37	02/26/21 00:25	191-24-2	
Benzo(k)fluoranthene	**74.1**	ug/kg	7.2	1.2	1	02/24/21 10:37	02/26/21 00:25	207-08-9	
Chrysene	**104**	ug/kg	7.2	0.37	1	02/24/21 10:37	02/26/21 00:25	218-01-9	
Dibenz(a,h)anthracene	**18.0**	ug/kg	7.2	1.6	1	02/24/21 10:37	02/26/21 00:25	53-70-3	
Fluoranthene	**141**	ug/kg	7.2	0.55	1	02/24/21 10:37	02/26/21 00:25	206-44-0	
Fluorene	**20.9**	ug/kg	7.2	0.67	1	02/24/21 10:37	02/26/21 00:25	86-73-7	
Indeno(1,2,3-cd)pyrene	**49.7**	ug/kg	7.2	1.4	1	02/24/21 10:37	02/26/21 00:25	193-39-5	
Naphthalene	**49.2**	ug/kg	7.2	1.4	1	02/24/21 10:37	02/26/21 00:25	91-20-3	
Phenanthrene	**93.3**	ug/kg	7.2	0.64	1	02/24/21 10:37	02/26/21 00:25	85-01-8	
Pyrene	**136**	ug/kg	7.2	0.81	1	02/24/21 10:37	02/26/21 00:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	37-88		1	02/24/21 10:37	02/26/21 00:25	321-60-8	ST
Terphenyl-d14 (S)	95	%.	10-128		1	02/24/21 10:37	02/26/21 00:25	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	**5.7**	ug/kg	3.9	0.73	1	02/19/21 10:38	02/19/21 17:38	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 17:38	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130		1	02/19/21 10:38	02/19/21 17:38	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 17:38	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	7.9	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-07 (0'-2') **Lab ID: 30405879022** Collected: 02/11/21 13:05 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**33.8**	mg/kg	1.3	0.50	1	02/16/21 15:27	02/17/21 12:19	7440-38-2	
Lead	**47.3**	mg/kg	1.3	0.58	1	02/16/21 15:27	02/17/21 12:19	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**31.8**	ug/kg	8.5	0.77	1	02/24/21 10:37	02/26/21 00:43	83-32-9	
Acenaphthylene	**72.7**	ug/kg	8.5	0.61	1	02/24/21 10:37	02/26/21 00:43	208-96-8	
Anthracene	**117**	ug/kg	8.5	0.77	1	02/24/21 10:37	02/26/21 00:43	120-12-7	
Benzo(a)anthracene	**290**	ug/kg	8.5	1.0	1	02/24/21 10:37	02/26/21 00:43	56-55-3	
Benzo(a)pyrene	**727**	ug/kg	8.5	0.53	1	02/24/21 10:37	02/26/21 00:43	50-32-8	
Benzo(b)fluoranthene	**1530**	ug/kg	8.5	1.0	1	02/24/21 10:37	02/26/21 00:43	205-99-2	
Benzo(g,h,i)perylene	**586**	ug/kg	8.5	1.3	1	02/24/21 10:37	02/26/21 00:43	191-24-2	
Benzo(k)fluoranthene	**511**	ug/kg	8.5	1.4	1	02/24/21 10:37	02/26/21 00:43	207-08-9	
Chrysene	**567**	ug/kg	8.5	0.44	1	02/24/21 10:37	02/26/21 00:43	218-01-9	
Dibenz(a,h)anthracene	**202**	ug/kg	8.5	1.9	1	02/24/21 10:37	02/26/21 00:43	53-70-3	
Fluoranthene	**354**	ug/kg	8.5	0.65	1	02/24/21 10:37	02/26/21 00:43	206-44-0	
Fluorene	**33.7**	ug/kg	8.5	0.79	1	02/24/21 10:37	02/26/21 00:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**528**	ug/kg	8.5	1.6	1	02/24/21 10:37	02/26/21 00:43	193-39-5	
Naphthalene	**442**	ug/kg	8.5	1.7	1	02/24/21 10:37	02/26/21 00:43	91-20-3	
Phenanthrene	**469**	ug/kg	8.5	0.75	1	02/24/21 10:37	02/26/21 00:43	85-01-8	
Pyrene	**437**	ug/kg	8.5	0.96	1	02/24/21 10:37	02/26/21 00:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%.	37-88		1	02/24/21 10:37	02/26/21 00:43	321-60-8	
Terphenyl-d14 (S)	78	%.	10-128		1	02/24/21 10:37	02/26/21 00:43	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	9.4	1.8	1	02/19/21 10:38	02/19/21 18:04	91-20-3	1c
Surrogates									
Toluene-d8 (S)	102	%.	70-130		1	02/19/21 10:38	02/19/21 18:04	2037-26-5	
4-Bromofluorobenzene (S)	113	%.	70-130		1	02/19/21 10:38	02/19/21 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	02/19/21 10:38	02/19/21 18:04	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 18:04	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**21.8**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-07 (2'-8') **Lab ID: 30405879023** Collected: 02/11/21 13:20 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**7.5**	mg/kg	0.95	0.37	1	02/16/21 15:27	02/17/21 12:22	7440-38-2	
Lead	**17.8**	mg/kg	0.95	0.43	1	02/16/21 15:27	02/17/21 12:22	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.4	0.67	1	02/24/21 10:37	02/26/21 01:00	83-32-9	
Acenaphthylene	ND	ug/kg	7.4	0.53	1	02/24/21 10:37	02/26/21 01:00	208-96-8	
Anthracene	ND	ug/kg	7.4	0.67	1	02/24/21 10:37	02/26/21 01:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.4	0.87	1	02/24/21 10:37	02/26/21 01:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.4	0.46	1	02/24/21 10:37	02/26/21 01:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.4	0.89	1	02/24/21 10:37	02/26/21 01:00	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.4	1.1	1	02/24/21 10:37	02/26/21 01:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.4	1.2	1	02/24/21 10:37	02/26/21 01:00	207-08-9	lp
Chrysene	**11.0**	ug/kg	7.4	0.38	1	02/24/21 10:37	02/26/21 01:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.4	1.7	1	02/24/21 10:37	02/26/21 01:00	53-70-3	
Fluoranthene	ND	ug/kg	7.4	0.56	1	02/24/21 10:37	02/26/21 01:00	206-44-0	
Fluorene	ND	ug/kg	7.4	0.69	1	02/24/21 10:37	02/26/21 01:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.4	1.4	1	02/24/21 10:37	02/26/21 01:00	193-39-5	
Naphthalene	ND	ug/kg	7.4	1.4	1	02/24/21 10:37	02/26/21 01:00	91-20-3	
Phenanthrene	**35.6**	ug/kg	7.4	0.66	1	02/24/21 10:37	02/26/21 01:00	85-01-8	
Pyrene	ND	ug/kg	7.4	0.84	1	02/24/21 10:37	02/26/21 01:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	84	%.	37-88		1	02/24/21 10:37	02/26/21 01:00	321-60-8	
Terphenyl-d14 (S)	97	%.	10-128		1	02/24/21 10:37	02/26/21 01:00	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.8	0.89	1	02/19/21 10:38	02/19/21 18:30	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 18:30	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	02/19/21 10:38	02/19/21 18:30	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 18:30	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**10.8**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-07 (2'-8')DUP Lab ID: **30405879024** Collected: 02/11/21 13:20 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**8.8**	mg/kg	1.0	0.40	1	02/16/21 15:27	02/17/21 12:25	7440-38-2	
Lead	**14.4**	mg/kg	1.0	0.47	1	02/16/21 15:27	02/17/21 12:25	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.7	0.70	1	02/24/21 10:37	02/26/21 01:18	83-32-9	
Acenaphthylene	ND	ug/kg	7.7	0.55	1	02/24/21 10:37	02/26/21 01:18	208-96-8	
Anthracene	ND	ug/kg	7.7	0.70	1	02/24/21 10:37	02/26/21 01:18	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.7	0.91	1	02/24/21 10:37	02/26/21 01:18	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.7	0.48	1	02/24/21 10:37	02/26/21 01:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.7	0.93	1	02/24/21 10:37	02/26/21 01:18	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.7	1.2	1	02/24/21 10:37	02/26/21 01:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.7	1.3	1	02/24/21 10:37	02/26/21 01:18	207-08-9	lp
Chrysene	**13.6**	ug/kg	7.7	0.40	1	02/24/21 10:37	02/26/21 01:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.7	1.7	1	02/24/21 10:37	02/26/21 01:18	53-70-3	
Fluoranthene	ND	ug/kg	7.7	0.59	1	02/24/21 10:37	02/26/21 01:18	206-44-0	
Fluorene	ND	ug/kg	7.7	0.72	1	02/24/21 10:37	02/26/21 01:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.7	1.5	1	02/24/21 10:37	02/26/21 01:18	193-39-5	
Naphthalene	ND	ug/kg	7.7	1.5	1	02/24/21 10:37	02/26/21 01:18	91-20-3	
Phenanthrene	**43.3**	ug/kg	7.7	0.68	1	02/24/21 10:37	02/26/21 01:18	85-01-8	
Pyrene	ND	ug/kg	7.7	0.87	1	02/24/21 10:37	02/26/21 01:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	37-88		1	02/24/21 10:37	02/26/21 01:18	321-60-8	
Terphenyl-d14 (S)	88	%.	10-128		1	02/24/21 10:37	02/26/21 01:18	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.9	0.92	1	02/19/21 10:38	02/19/21 18:56	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 18:56	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	02/19/21 10:38	02/19/21 18:56	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 18:56	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**15.2**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2') Lab ID: **30405879025** Collected: 02/11/21 14:30 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.14 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:48	7440-38-2	
Lead	ND	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:48	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		02/19/21 14:38	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		02/19/21 14:38	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		02/19/21 14:38	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	92	%.	70-130		10		02/19/21 14:38	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		02/19/21 14:38	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	70-130		10		02/19/21 14:38	460-00-4	
Dibromofluoromethane (S)	103	%.	70-130		10		02/19/21 14:38	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	10.7	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')(SPLP) **Lab ID: 30405879026** Collected: 02/17/21 13:37 Received: 02/17/21 13:37 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 18:49	83-32-9	R1
Acenaphthylene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:49	208-96-8	R1
Anthracene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:49	120-12-7	R1
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 18:49	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 18:49	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:49	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:49	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 18:49	206-44-0	R1
Fluorene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:49	86-73-7	R1
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:49	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:49	91-20-3	R1
Phenanthrene	ND	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 18:49	85-01-8	R1
Pyrene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:49	129-00-0	R1
Surrogates									
2-Fluorobiphenyl (S)	41	%.	19-92		1	02/22/21 09:02	02/22/21 18:49	321-60-8	
Terphenyl-d14 (S)	63	%.	55-109		1	02/22/21 09:02	02/22/21 18:49	1718-51-0	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5500

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')MS **Lab ID: 30405879027** Collected: 02/11/21 14:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.14 Pace Analytical Services - Greensburg								
Arsenic	**0.52**	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:54	7440-38-2	
Lead	**0.51**	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:54	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	**188**	ug/L	50.0	7.8	10		02/19/21 15:01	108-90-7	
Naphthalene	**147**	ug/L	50.0	9.4	10		02/19/21 15:01	91-20-3	
Tetrachloroethene	**202**	ug/L	50.0	17.3	10		02/19/21 15:01	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	70-130		10		02/19/21 15:01	17060-07-0	
Toluene-d8 (S)	100	%.	70-130		10		02/19/21 15:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		02/19/21 15:01	460-00-4	
Dibromofluoromethane (S)	109	%.	70-130		10		02/19/21 15:01	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**11.4**	%	0.10	0.10	1		02/16/21 18:01		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')MS(SPLP) Lab ID: **30405879028** Collected: 02/17/21 13:37 Received: 02/17/21 13:37 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**0.75**	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 19:06	83-32-9	
Acenaphthylene	**0.75**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:06	208-96-8	
Anthracene	**0.80**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:06	120-12-7	
Benzo(a)anthracene	**1.2**	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 19:06	56-55-3	L2,P2
Benzo(a)pyrene	**1.1**	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 19:06	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.2**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:06	205-99-2	
Benzo(g,h,i)perylene	**1.0**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:06	191-24-2	
Benzo(k)fluoranthene	**1.1**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:06	207-08-9	
Chrysene	**1.1**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:06	218-01-9	
Dibenz(a,h)anthracene	**1.1**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:06	53-70-3	
Fluoranthene	**1.0**	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 19:06	206-44-0	
Fluorene	**0.78**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.1**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:06	193-39-5	
Naphthalene	**0.75**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:06	91-20-3	
Phenanthrene	**0.82**	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 19:06	85-01-8	
Pyrene	**1.0**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	32	%.	19-92		1	02/22/21 09:02	02/22/21 19:06	321-60-8	
Terphenyl-d14 (S)	54	%.	55-109		1	02/22/21 09:02	02/22/21 19:06	1718-51-0	P2,S0, SR

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')MSD **Lab ID: 30405879029** Collected: 02/11/21 14:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: Final pH: 9.14 Pace Analytical Services - Greensburg								
Arsenic	**0.51**	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:56	7440-38-2	
Lead	**0.49**	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:56	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	**190**	ug/L	50.0	7.8	10		02/19/21 15:23	108-90-7	
Naphthalene	**154**	ug/L	50.0	9.4	10		02/19/21 15:23	91-20-3	
Tetrachloroethene	**210**	ug/L	50.0	17.3	10		02/19/21 15:23	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%.	70-130		10		02/19/21 15:23	17060-07-0	
Toluene-d8 (S)	112	%.	70-130		10		02/19/21 15:23	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	70-130		10		02/19/21 15:23	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		02/19/21 15:23	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**10.7**	%	0.10	0.10	1		02/16/21 18:01		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')MSD(SPLP) **Lab ID: 30405879030** Collected: 02/17/21 13:37 Received: 02/17/21 13:37 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	1.2	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 19:23	83-32-9	
Acenaphthylene	1.2	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:23	208-96-8	
Anthracene	1.2	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:23	120-12-7	
Benzo(a)anthracene	1.4	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 19:23	56-55-3	L2,P2
Benzo(a)pyrene	1.3	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 19:23	50-32-8	L2,P2
Benzo(b)fluoranthene	1.4	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:23	205-99-2	
Benzo(g,h,i)perylene	1.2	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:23	191-24-2	
Benzo(k)fluoranthene	1.4	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:23	207-08-9	
Chrysene	1.4	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:23	218-01-9	
Dibenz(a,h)anthracene	1.3	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:23	53-70-3	
Fluoranthene	1.3	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 19:23	206-44-0	
Fluorene	1.2	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:23	86-73-7	
Indeno(1,2,3-cd)pyrene	1.3	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:23	193-39-5	
Naphthalene	1.2	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:23	91-20-3	
Phenanthrene	1.2	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 19:23	85-01-8	
Pyrene	1.3	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%.	19-92		1	02/22/21 09:02	02/22/21 19:23	321-60-8	
Terphenyl-d14 (S)	66	%.	55-109		1	02/22/21 09:02	02/22/21 19:23	1718-51-0	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-08 (2'-8') **Lab ID: 30405879031** Collected: 02/11/21 15:05 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**9.5**	mg/kg	1.0	0.39	1	02/16/21 15:27	02/17/21 12:28	7440-38-2	
Lead	**15.6**	mg/kg	1.0	0.45	1	02/16/21 15:27	02/17/21 12:28	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**43.7**	ug/kg	7.6	0.69	1	02/24/21 10:37	02/26/21 01:36	83-32-9	
Acenaphthylene	ND	ug/kg	7.6	0.54	1	02/24/21 10:37	02/26/21 01:36	208-96-8	
Anthracene	**29.0**	ug/kg	7.6	0.69	1	02/24/21 10:37	02/26/21 01:36	120-12-7	
Benzo(a)anthracene	**37.9**	ug/kg	7.6	0.89	1	02/24/21 10:37	02/26/21 01:36	56-55-3	
Benzo(a)pyrene	**12.3**	ug/kg	7.6	0.47	1	02/24/21 10:37	02/26/21 01:36	50-32-8	
Benzo(b)fluoranthene	**23.1**	ug/kg	7.6	0.91	1	02/24/21 10:37	02/26/21 01:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.6	1.1	1	02/24/21 10:37	02/26/21 01:36	191-24-2	
Benzo(k)fluoranthene	**8.2**	ug/kg	7.6	1.3	1	02/24/21 10:37	02/26/21 01:36	207-08-9	
Chrysene	**30.5**	ug/kg	7.6	0.39	1	02/24/21 10:37	02/26/21 01:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.6	1.7	1	02/24/21 10:37	02/26/21 01:36	53-70-3	
Fluoranthene	**221**	ug/kg	7.6	0.57	1	02/24/21 10:37	02/26/21 01:36	206-44-0	
Fluorene	**58.1**	ug/kg	7.6	0.70	1	02/24/21 10:37	02/26/21 01:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.6	1.4	1	02/24/21 10:37	02/26/21 01:36	193-39-5	
Naphthalene	**28.3**	ug/kg	7.6	1.5	1	02/24/21 10:37	02/26/21 01:36	91-20-3	
Phenanthrene	**296**	ug/kg	7.6	0.67	1	02/24/21 10:37	02/26/21 01:36	85-01-8	
Pyrene	**153**	ug/kg	7.6	0.85	1	02/24/21 10:37	02/26/21 01:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	84	%.	37-88		1	02/24/21 10:37	02/26/21 01:36	321-60-8	
Terphenyl-d14 (S)	94	%.	10-128		1	02/24/21 10:37	02/26/21 01:36	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.9	0.91	1	02/19/21 10:38	02/19/21 19:21	91-20-3	1c
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 19:21	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130		1	02/19/21 10:38	02/19/21 19:21	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 19:21	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**12.6**	%	0.10	0.10	1		02/16/21 18:02		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Equipment Blank 4 **Lab ID: 30405879032** Collected: 02/11/21 12:50 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:28	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:28	7439-92-1	
Total Hardness by SM2340B-2011	0.0000000010	ug/L			1	02/16/21 15:18	02/17/21 10:28		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.025	1	02/15/21 13:40	02/16/21 17:03	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.023	1	02/15/21 13:40	02/16/21 17:03	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.024	1	02/15/21 13:40	02/16/21 17:03	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.088	1	02/15/21 13:40	02/16/21 17:03	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.028	1	02/15/21 13:40	02/16/21 17:03	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.046	1	02/15/21 13:40	02/16/21 17:03	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.033	1	02/15/21 13:40	02/16/21 17:03	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.045	1	02/15/21 13:40	02/16/21 17:03	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.035	1	02/15/21 13:40	02/16/21 17:03	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.034	1	02/15/21 13:40	02/16/21 17:03	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.022	1	02/15/21 13:40	02/16/21 17:03	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.024	1	02/15/21 13:40	02/16/21 17:03	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.036	1	02/15/21 13:40	02/16/21 17:03	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.046	1	02/15/21 13:40	02/16/21 17:03	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.029	1	02/15/21 13:40	02/16/21 17:03	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.022	1	02/15/21 13:40	02/16/21 17:03	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	46	%.	19-92		1	02/15/21 13:40	02/16/21 17:03	321-60-8	
Terphenyl-d14 (S)	58	%.	55-109		1	02/15/21 13:40	02/16/21 17:03	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 15:41	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		02/23/21 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		02/23/21 15:41	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		02/23/21 15:41	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		02/23/21 15:41	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Field Blank 4 Lab ID: **30405879033** Collected: 02/11/21 12:30 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:31	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:31	7439-92-1	
Total Hardness by SM2340B-2011	**18.5**	ug/L			1	02/16/21 15:18	02/17/21 10:31		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 17:20	83-32-9	1c
Acenaphthylene	ND	ug/L	0.12	0.027	1	02/15/21 13:40	02/16/21 17:20	208-96-8	1c
Anthracene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 17:20	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.12	0.10	1	02/15/21 13:40	02/16/21 17:20	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.12	0.032	1	02/15/21 13:40	02/16/21 17:20	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 17:20	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.12	0.038	1	02/15/21 13:40	02/16/21 17:20	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 17:20	207-08-9	1c
Chrysene	ND	ug/L	0.12	0.041	1	02/15/21 13:40	02/16/21 17:20	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.12	0.039	1	02/15/21 13:40	02/16/21 17:20	53-70-3	1c
Fluoranthene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 17:20	206-44-0	1c
Fluorene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 17:20	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	0.042	1	02/15/21 13:40	02/16/21 17:20	193-39-5	1c
Naphthalene	ND	ug/L	0.12	0.053	1	02/15/21 13:40	02/16/21 17:20	91-20-3	1c
Phenanthrene	ND	ug/L	0.12	0.034	1	02/15/21 13:40	02/16/21 17:20	85-01-8	1c
Pyrene	ND	ug/L	0.12	0.026	1	02/15/21 13:40	02/16/21 17:20	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	57	%.	19-92		1	02/15/21 13:40	02/16/21 17:20	321-60-8	
Terphenyl-d14 (S)	70	%.	55-109		1	02/15/21 13:40	02/16/21 17:20	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 16:08	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		02/23/21 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%.	70-130		1		02/23/21 16:08	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		1		02/23/21 16:08	2037-26-5	
Dibromofluoromethane (S)	107	%.	70-130		1		02/23/21 16:08	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Trip Blank 4 **Lab ID: 30405879034** Collected: 02/11/21 00:01 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 13:13	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	70-130		1		02/24/21 13:13	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1		02/24/21 13:13	17060-07-0	
Toluene-d8 (S)	98	%.	70-130		1		02/24/21 13:13	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		02/24/21 13:13	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Trip Blank 5 Lab ID: **30405879035** Collected: 02/11/21 00:01 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 13:41	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		02/24/21 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130		1		02/24/21 13:41	17060-07-0	
Toluene-d8 (S)	94	%	70-130		1		02/24/21 13:41	2037-26-5	
Dibromofluoromethane (S)	115	%	70-130		1		02/24/21 13:41	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSS-01 (0'-2') **Lab ID: 30405885001** Collected: 02/12/21 10:50 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**4.6**	mg/kg	1.2	0.45	1	02/16/21 15:32	02/17/21 11:06	7440-38-2	R1
Lead	**12.1**	mg/kg	1.2	0.52	1	02/16/21 15:32	02/17/21 11:06	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.3	0.75	1	02/25/21 09:07	02/26/21 11:56	83-32-9	
Acenaphthylene	ND	ug/kg	8.3	0.59	1	02/25/21 09:07	02/26/21 11:56	208-96-8	
Anthracene	ND	ug/kg	8.3	0.75	1	02/25/21 09:07	02/26/21 11:56	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.3	0.98	1	02/25/21 09:07	02/26/21 11:56	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.3	0.52	1	02/25/21 09:07	02/26/21 11:56	50-32-8	
Benzo(b)fluoranthene	**10.5**	ug/kg	8.3	1.0	1	02/25/21 09:07	02/26/21 11:56	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	8.3	1.3	1	02/25/21 09:07	02/26/21 11:56	191-24-2	
Benzo(k)fluoranthene	**9.4**	ug/kg	8.3	1.4	1	02/25/21 09:07	02/26/21 11:56	207-08-9	Ip
Chrysene	**8.4**	ug/kg	8.3	0.43	1	02/25/21 09:07	02/26/21 11:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.3	1.8	1	02/25/21 09:07	02/26/21 11:56	53-70-3	
Fluoranthene	ND	ug/kg	8.3	0.63	1	02/25/21 09:07	02/26/21 11:56	206-44-0	
Fluorene	ND	ug/kg	8.3	0.77	1	02/25/21 09:07	02/26/21 11:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.3	1.6	1	02/25/21 09:07	02/26/21 11:56	193-39-5	
Naphthalene	**12.1**	ug/kg	8.3	1.6	1	02/25/21 09:07	02/26/21 11:56	91-20-3	
Phenanthrene	**21.1**	ug/kg	8.3	0.73	1	02/25/21 09:07	02/26/21 11:56	85-01-8	
Pyrene	ND	ug/kg	8.3	0.93	1	02/25/21 09:07	02/26/21 11:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	85	%.	37-88		1	02/25/21 09:07	02/26/21 11:56	321-60-8	
Terphenyl-d14 (S)	89	%.	10-128		1	02/25/21 09:07	02/26/21 11:56	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.7	1.1	1	02/17/21 11:03	02/17/21 14:41	91-20-3	ML
Surrogates									
Toluene-d8 (S)	103	%.	70-130		1	02/17/21 11:03	02/17/21 14:41	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	70-130		1	02/17/21 11:03	02/17/21 14:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1	02/17/21 11:03	02/17/21 14:41	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	02/17/21 11:03	02/17/21 14:41	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**20.3**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSS-01 (0'-2') MS **Lab ID: 30405885002** Collected: 02/12/21 11:20 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**56.0**	mg/kg	1.2	0.45	1	02/16/21 15:32	02/17/21 11:12	7440-38-2	
Lead	**63.2**	mg/kg	1.2	0.52	1	02/16/21 15:32	02/17/21 11:12	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**146**	ug/kg	8.3	0.75	1	02/25/21 09:07	02/26/21 12:15	83-32-9	
Acenaphthylene	**151**	ug/kg	8.3	0.60	1	02/25/21 09:07	02/26/21 12:15	208-96-8	
Anthracene	**156**	ug/kg	8.3	0.76	1	02/25/21 09:07	02/26/21 12:15	120-12-7	
Benzo(a)anthracene	**162**	ug/kg	8.3	0.98	1	02/25/21 09:07	02/26/21 12:15	56-55-3	
Benzo(a)pyrene	**161**	ug/kg	8.3	0.52	1	02/25/21 09:07	02/26/21 12:15	50-32-8	
Benzo(b)fluoranthene	**169**	ug/kg	8.3	1.0	1	02/25/21 09:07	02/26/21 12:15	205-99-2	
Benzo(g,h,i)perylene	**157**	ug/kg	8.3	1.3	1	02/25/21 09:07	02/26/21 12:15	191-24-2	
Benzo(k)fluoranthene	**159**	ug/kg	8.3	1.4	1	02/25/21 09:07	02/26/21 12:15	207-08-9	
Chrysene	**159**	ug/kg	8.3	0.43	1	02/25/21 09:07	02/26/21 12:15	218-01-9	
Dibenz(a,h)anthracene	**157**	ug/kg	8.3	1.9	1	02/25/21 09:07	02/26/21 12:15	53-70-3	
Fluoranthene	**166**	ug/kg	8.3	0.63	1	02/25/21 09:07	02/26/21 12:15	206-44-0	
Fluorene	**156**	ug/kg	8.3	0.77	1	02/25/21 09:07	02/26/21 12:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**158**	ug/kg	8.3	1.6	1	02/25/21 09:07	02/26/21 12:15	193-39-5	
Naphthalene	**154**	ug/kg	8.3	1.6	1	02/25/21 09:07	02/26/21 12:15	91-20-3	
Phenanthrene	**165**	ug/kg	8.3	0.73	1	02/25/21 09:07	02/26/21 12:15	85-01-8	
Pyrene	**164**	ug/kg	8.3	0.94	1	02/25/21 09:07	02/26/21 12:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	96 ✓	%.	37-88		1	02/25/21 09:07	02/26/21 12:15	321-60-8	ST
Terphenyl-d14 (S)	103 ✓	%.	10-128		1	02/25/21 09:07	02/26/21 12:15	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	**6.0**	ug/kg	5.8	1.1	1	02/17/21 11:03	02/17/21 15:03	91-20-3	
Surrogates									
Toluene-d8 (S)	108 ✓	%.	70-130		1	02/17/21 11:03	02/17/21 15:03	2037-26-5	
4-Bromofluorobenzene (S)	101 ✓	%.	70-130		1	02/17/21 11:03	02/17/21 15:03	460-00-4	
1,2-Dichloroethane-d4 (S)	102 ✓	%.	70-130		1	02/17/21 11:03	02/17/21 15:03	17060-07-0	
Dibromofluoromethane (S)	100 ✓	%.	70-130		1	02/17/21 11:03	02/17/21 15:03	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**20.2**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSS-01 (0'-2') MSD Lab ID: **30405885003** Collected: 02/12/21 11:20 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**70.1**	mg/kg	1.1	0.44	1	02/16/21 15:32	02/17/21 11:14	7440-38-2	
Lead	**67.4**	mg/kg	1.1	0.51	1	02/16/21 15:32	02/17/21 11:14	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**138**	ug/kg	8.1	0.73	1	02/25/21 09:07	02/26/21 12:37	83-32-9	
Acenaphthylene	**143**	ug/kg	8.1	0.58	1	02/25/21 09:07	02/26/21 12:37	208-96-8	
Anthracene	**157**	ug/kg	8.1	0.73	1	02/25/21 09:07	02/26/21 12:37	120-12-7	
Benzo(a)anthracene	**165**	ug/kg	8.1	0.94	1	02/25/21 09:07	02/26/21 12:37	56-55-3	
Benzo(a)pyrene	**163**	ug/kg	8.1	0.50	1	02/25/21 09:07	02/26/21 12:37	50-32-8	
Benzo(b)fluoranthene	**191**	ug/kg	8.1	0.96	1	02/25/21 09:07	02/26/21 12:37	205-99-2	
Benzo(g,h,i)perylene	**171**	ug/kg	8.1	1.2	1	02/25/21 09:07	02/26/21 12:37	191-24-2	
Benzo(k)fluoranthene	**153**	ug/kg	8.1	1.4	1	02/25/21 09:07	02/26/21 12:37	207-08-9	
Chrysene	**166**	ug/kg	8.1	0.42	1	02/25/21 09:07	02/26/21 12:37	218-01-9	
Dibenz(a,h)anthracene	**154**	ug/kg	8.1	1.8	1	02/25/21 09:07	02/26/21 12:37	53-70-3	
Fluoranthene	**175**	ug/kg	8.1	0.61	1	02/25/21 09:07	02/26/21 12:37	206-44-0	
Fluorene	**151**	ug/kg	8.1	0.75	1	02/25/21 09:07	02/26/21 12:37	86-73-7	
Indeno(1,2,3-cd)pyrene	**165**	ug/kg	8.1	1.5	1	02/25/21 09:07	02/26/21 12:37	193-39-5	
Naphthalene	**152**	ug/kg	8.1	1.6	1	02/25/21 09:07	02/26/21 12:37	91-20-3	
Phenanthrene	**186**	ug/kg	8.1	0.71	1	02/25/21 09:07	02/26/21 12:37	85-01-8	
Pyrene	**177**	ug/kg	8.1	0.90	1	02/25/21 09:07	02/26/21 12:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	90 ✓	%	37-88		1	02/25/21 09:07	02/26/21 12:37	321-60-8	ST
Terphenyl-d14 (S)	106 ✓	%.	10-128		1	02/25/21 09:07	02/26/21 12:37	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.6	1.0	1	02/17/21 11:03	02/17/21 15:26	91-20-3	
Surrogates									
Toluene-d8 (S)	98 ✓	%.	70-130		1	02/17/21 11:03	02/17/21 15:26	2037-26-5	
4-Bromofluorobenzene (S)	111 ✓	%	70-130		1	02/17/21 11:03	02/17/21 15:26	460-00-4	
1,2-Dichloroethane-d4 (S)	102 ✓	%.	70-130		1	02/17/21 11:03	02/17/21 15:26	17060-07-0	
Dibromofluoromethane (S)	100 ✓	%.	70-130		1	02/17/21 11:03	02/17/21 15:26	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**18.0**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSB-01 (2'-8') Lab ID: **30405885004** Collected: 02/12/21 11:35 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**20.3**	mg/kg	1.1	0.43	1	02/16/21 15:32	02/17/21 11:17	7440-38-2	
Lead	**16.4**	mg/kg	1.1	0.50	1	02/16/21 15:32	02/17/21 11:17	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.9	0.72	1	02/25/21 09:07	02/26/21 13:00	83-32-9	
Acenaphthylene	ND	ug/kg	7.9	0.57	1	02/25/21 09:07	02/26/21 13:00	208-96-8	
Anthracene	ND	ug/kg	7.9	0.72	1	02/25/21 09:07	02/26/21 13:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.9	0.93	1	02/25/21 09:07	02/26/21 13:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.9	0.50	1	02/25/21 09:07	02/26/21 13:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.9	0.95	1	02/25/21 09:07	02/26/21 13:00	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1.2	1	02/25/21 09:07	02/26/21 13:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.9	1.3	1	02/25/21 09:07	02/26/21 13:00	207-08-9	lp
Chrysene	ND	ug/kg	7.9	0.41	1	02/25/21 09:07	02/26/21 13:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1.8	1	02/25/21 09:07	02/26/21 13:00	53-70-3	
Fluoranthene	ND	ug/kg	7.9	0.60	1	02/25/21 09:07	02/26/21 13:00	206-44-0	
Fluorene	ND	ug/kg	7.9	0.74	1	02/25/21 09:07	02/26/21 13:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1.5	1	02/25/21 09:07	02/26/21 13:00	193-39-5	
Naphthalene	ND	ug/kg	7.9	1.5	1	02/25/21 09:07	02/26/21 13:00	91-20-3	
Phenanthrene	**9.1**	ug/kg	7.9	0.70	1	02/25/21 09:07	02/26/21 13:00	85-01-8	
Pyrene	ND	ug/kg	7.9	0.89	1	02/25/21 09:07	02/26/21 13:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	96	%.	37-88		1	02/25/21 09:07	02/26/21 13:00	321-60-8	ST
Terphenyl-d14 (S)	102	%.	10-128		1	02/25/21 09:07	02/26/21 13:00	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.2	0.97	1	02/17/21 11:03	02/17/21 15:48	91-20-3	
Surrogates									
Toluene-d8 (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 15:48	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	02/17/21 11:03	02/17/21 15:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 15:48	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	02/17/21 11:03	02/17/21 15:48	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**16.3**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSB-01 (2'-8') Dup **Lab ID: 30405885005** Collected: 02/12/21 11:35 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**9.0**	mg/kg	1.2	0.45	1	02/16/21 15:32	02/17/21 11:20	7440-38-2	
Lead	**12.7**	mg/kg	1.2	0.52	1	02/16/21 15:32	02/17/21 11:20	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.8	0.71	1	02/25/21 09:07	02/26/21 13:22	83-32-9	
Acenaphthylene	ND	ug/kg	7.8	0.56	1	02/25/21 09:07	02/26/21 13:22	208-96-8	
Anthracene	ND	ug/kg	7.8	0.71	1	02/25/21 09:07	02/26/21 13:22	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.8	0.92	1	02/25/21 09:07	02/26/21 13:22	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.8	0.49	1	02/25/21 09:07	02/26/21 13:22	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.8	0.94	1	02/25/21 09:07	02/26/21 13:22	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.8	1.2	1	02/25/21 09:07	02/26/21 13:22	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.8	1.3	1	02/25/21 09:07	02/26/21 13:22	207-08-9	lp
Chrysene	ND	ug/kg	7.8	0.40	1	02/25/21 09:07	02/26/21 13:22	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.8	1.7	1	02/25/21 09:07	02/26/21 13:22	53-70-3	
Fluoranthene	ND	ug/kg	7.8	0.59	1	02/25/21 09:07	02/26/21 13:22	206-44-0	
Fluorene	ND	ug/kg	7.8	0.72	1	02/25/21 09:07	02/26/21 13:22	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.8	1.5	1	02/25/21 09:07	02/26/21 13:22	193-39-5	
Naphthalene	ND	ug/kg	7.8	1.5	1	02/25/21 09:07	02/26/21 13:22	91-20-3	
Phenanthrene	ND	ug/kg	7.8	0.69	1	02/25/21 09:07	02/26/21 13:22	85-01-8	
Pyrene	ND	ug/kg	7.8	0.88	1	02/25/21 09:07	02/26/21 13:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	37-88		1	02/25/21 09:07	02/26/21 13:22	321-60-8	ST
Terphenyl-d14 (S)	99	%.	10-128		1	02/25/21 09:07	02/26/21 13:22	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.5	1.0	1	02/17/21 11:03	02/17/21 16:10	91-20-3	
Surrogates									
Toluene-d8 (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 16:10	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	70-130		1	02/17/21 11:03	02/17/21 16:10	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 16:10	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	02/17/21 11:03	02/17/21 16:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**14.9**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: Field Blank 5 **Lab ID: 30405885006** Collected: 02/12/21 10:15 Received: 02/12/21 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:16	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:16	7439-92-1	
Total Hardness by SM2340B-2011	**59100**	ug/L			1	02/16/21 15:18	02/17/21 10:16		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	02/15/21 13:40	02/16/21 17:37	83-32-9	1c
Acenaphthylene	ND	ug/L	0.10	0.022	1	02/15/21 13:40	02/16/21 17:37	208-96-8	1c
Anthracene	ND	ug/L	0.10	0.023	1	02/15/21 13:40	02/16/21 17:37	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.10	0.084	1	02/15/21 13:40	02/16/21 17:37	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.10	0.027	1	02/15/21 13:40	02/16/21 17:37	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.10	0.043	1	02/15/21 13:40	02/16/21 17:37	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.032	1	02/15/21 13:40	02/16/21 17:37	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.10	0.043	1	02/15/21 13:40	02/16/21 17:37	207-08-9	1c
Chrysene	ND	ug/L	0.10	0.034	1	02/15/21 13:40	02/16/21 17:37	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.032	1	02/15/21 13:40	02/16/21 17:37	53-70-3	1c
Fluoranthene	ND	ug/L	0.10	0.021	1	02/15/21 13:40	02/16/21 17:37	206-44-0	1c
Fluorene	ND	ug/L	0.10	0.023	1	02/15/21 13:40	02/16/21 17:37	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.034	1	02/15/21 13:40	02/16/21 17:37	193-39-5	1c
Naphthalene	ND	ug/L	0.10	0.044	1	02/15/21 13:40	02/16/21 17:37	91-20-3	1c
Phenanthrene	ND	ug/L	0.10	0.028	1	02/15/21 13:40	02/16/21 17:37	85-01-8	1c
Pyrene	ND	ug/L	0.10	0.021	1	02/15/21 13:40	02/16/21 17:37	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	47	%.	19-92		1	02/15/21 13:40	02/16/21 17:37	321-60-8	
Terphenyl-d14 (S)	58	%.	55-109		1	02/15/21 13:40	02/16/21 17:37	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 13:54	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	70-130		1		02/24/21 13:54	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		02/24/21 13:54	17060-07-0	
Toluene-d8 (S)	93	%.	70-130		1		02/24/21 13:54	2037-26-5	
Dibromofluoromethane (S)	113	%.	70-130		1		02/24/21 13:54	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: Equipment Blank 5 **Lab ID: 30405885007** Collected: 02/12/21 10:05 Received: 02/12/21 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:25	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:25	7439-92-1	
Total Hardness by SM2340B-2011	**59400**	ug/L			1	02/16/21 15:18	02/17/21 10:25		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.024	1	02/15/21 13:40	02/16/21 17:54	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.023	1	02/15/21 13:40	02/16/21 17:54	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.023	1	02/15/21 13:40	02/16/21 17:54	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.086	1	02/15/21 13:40	02/16/21 17:54	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.027	1	02/15/21 13:40	02/16/21 17:54	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.044	1	02/15/21 13:40	02/16/21 17:54	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.032	1	02/15/21 13:40	02/16/21 17:54	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.044	1	02/15/21 13:40	02/16/21 17:54	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.034	1	02/15/21 13:40	02/16/21 17:54	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.033	1	02/15/21 13:40	02/16/21 17:54	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.021	1	02/15/21 13:40	02/16/21 17:54	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.024	1	02/15/21 13:40	02/16/21 17:54	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.035	1	02/15/21 13:40	02/16/21 17:54	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.045	1	02/15/21 13:40	02/16/21 17:54	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.029	1	02/15/21 13:40	02/16/21 17:54	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.022	1	02/15/21 13:40	02/16/21 17:54	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	56	%.	19-92		1	02/15/21 13:40	02/16/21 17:54	321-60-8	
Terphenyl-d14 (S)	61	%.	55-109		1	02/15/21 13:40	02/16/21 17:54	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 14:22	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		02/24/21 14:22	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		02/24/21 14:22	17060-07-0	
Toluene-d8 (S)	89	%.	70-130		1		02/24/21 14:22	2037-26-5	
Dibromofluoromethane (S)	106	%.	70-130		1		02/24/21 14:22	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: Trip Blank **Lab ID: 30405885008** Collected: 02/12/21 10:05 Received: 02/12/21 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 13:27	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	91	%.	70-130		1		02/24/21 13:27	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1		02/24/21 13:27	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		1		02/24/21 13:27	2037-26-5	
Dibromofluoromethane (S)	103	%.	70-130		1		02/24/21 13:27	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-1-U (0-0.5) **Lab ID: 30411349001** Collected: 03/16/21 16:10 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**16.9**	mg/kg	2.0	0.77	1	03/29/21 15:32	03/30/21 15:26	7440-38-2	
Lead	**21.9**	mg/kg	2.0	0.88	1	03/29/21 15:32	03/30/21 15:26	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	13.8	1.2	1	03/23/21 09:29	03/24/21 15:27	83-32-9	
Acenaphthylene	ND	ug/kg	13.8	0.98	1	03/23/21 09:29	03/24/21 15:27	208-96-8	
Anthracene	ND	ug/kg	13.8	1.2	1	03/23/21 09:29	03/24/21 15:27	120-12-7	
Benzo(a)anthracene	**34.3**	ug/kg	13.8	1.6	1	03/23/21 09:29	03/24/21 15:27	56-55-3	
Benzo(a)pyrene	**43.9**	ug/kg	13.8	0.86	1	03/23/21 09:29	03/24/21 15:27	50-32-8	
Benzo(b)fluoranthene	**89.3**	ug/kg	13.8	1.6	1	03/23/21 09:29	03/24/21 15:27	205-99-2	
Benzo(g,h,i)perylene	**35.2**	ug/kg	13.8	2.1	1	03/23/21 09:29	03/24/21 15:27	191-24-2	
Benzo(k)fluoranthene	**29.3**	ug/kg	13.8	2.3	1	03/23/21 09:29	03/24/21 15:27	207-08-9	
Chrysene	**66.4**	ug/kg	13.8	0.71	1	03/23/21 09:29	03/24/21 15:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	13.8	3.1	1	03/23/21 09:29	03/24/21 15:27	53-70-3	
Fluoranthene	**64.1**	ug/kg	13.8	1.0	1	03/23/21 09:29	03/24/21 15:27	206-44-0	
Fluorene	ND	ug/kg	13.8	1.3	1	03/23/21 09:29	03/24/21 15:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**30.4**	ug/kg	13.8	2.6	1	03/23/21 09:29	03/24/21 15:27	193-39-5	
Naphthalene	**38.1**	ug/kg	13.8	2.7	1	03/23/21 09:29	03/24/21 15:27	91-20-3	
Phenanthrene	**78.3**	ug/kg	13.8	1.2	1	03/23/21 09:29	03/24/21 15:27	85-01-8	
Pyrene	**57.6**	ug/kg	13.8	1.5	1	03/23/21 09:29	03/24/21 15:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92	%	37-88		1	03/23/21 09:29	03/24/21 15:27	321-60-8	ST
Terphenyl-d14 (S)	99	%	10-128		1	03/23/21 09:29	03/24/21 15:27	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	16.8	3.2	1	03/24/21 11:35	03/24/21 12:41	91-20-3	
Surrogates									
Toluene-d8 (S)	105	%	70-130		1	03/24/21 11:35	03/24/21 12:41	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1	03/24/21 11:35	03/24/21 12:41	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1	03/24/21 11:35	03/24/21 12:41	17060-07-0	
Dibromofluoromethane (S)	99	%	70-130		1	03/24/21 11:35	03/24/21 12:41	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**52.7**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-1-D (0-0.5) **Lab ID: 30411349002** Collected: 03/16/21 16:10 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**15.4**	mg/kg	1.5	0.60	1	03/29/21 15:32	03/30/21 15:29	7440-38-2	
Lead	**24.8**	mg/kg	1.5	0.69	1	03/29/21 15:32	03/30/21 15:29	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	10.3	0.93	1	03/23/21 09:29	03/24/21 15:45	83-32-9	
Acenaphthylene	**25.3**	ug/kg	10.3	0.74	1	03/23/21 09:29	03/24/21 15:45	208-96-8	
Anthracene	**45.1**	ug/kg	10.3	0.93	1	03/23/21 09:29	03/24/21 15:45	120-12-7	
Benzo(a)anthracene	**145**	ug/kg	10.3	1.2	1	03/23/21 09:29	03/24/21 15:45	56-55-3	
Benzo(a)pyrene	**232**	ug/kg	10.3	0.64	1	03/23/21 09:29	03/24/21 15:45	50-32-8	
Benzo(b)fluoranthene	**496**	ug/kg	10.3	1.2	1	03/23/21 09:29	03/24/21 15:45	205-99-2	
Benzo(g,h,i)perylene	**202**	ug/kg	10.3	1.6	1	03/23/21 09:29	03/24/21 15:45	191-24-2	
Benzo(k)fluoranthene	**129**	ug/kg	10.3	1.7	1	03/23/21 09:29	03/24/21 15:45	207-08-9	
Chrysene	**256**	ug/kg	10.3	0.53	1	03/23/21 09:29	03/24/21 15:45	218-01-9	
Dibenz(a,h)anthracene	**57.6**	ug/kg	10.3	2.3	1	03/23/21 09:29	03/24/21 15:45	53-70-3	
Fluoranthene	**192**	ug/kg	10.3	0.78	1	03/23/21 09:29	03/24/21 15:45	206-44-0	
Fluorene	ND	ug/kg	10.3	0.95	1	03/23/21 09:29	03/24/21 15:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**171**	ug/kg	10.3	2.0	1	03/23/21 09:29	03/24/21 15:45	193-39-5	
Naphthalene	**41.4**	ug/kg	10.3	2.0	1	03/23/21 09:29	03/24/21 15:45	91-20-3	
Phenanthrene	**75.1**	ug/kg	10.3	0.91	1	03/23/21 09:29	03/24/21 15:45	85-01-8	
Pyrene	**215**	ug/kg	10.3	1.2	1	03/23/21 09:29	03/24/21 15:45	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	88	%.	37-88		1	03/23/21 09:29	03/24/21 15:45	321-60-8	
Terphenyl-d14 (S)	96	%.	10-128		1	03/23/21 09:29	03/24/21 15:45	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	8.0	1.5	1	03/24/21 11:35	03/24/21 13:06	91-20-3	
Surrogates									
Toluene-d8 (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 13:06	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 13:06	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 13:06	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**36.0**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-1 (0-0.5) **Lab ID: 30411349003** Collected: 03/16/21 16:10 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 7.62 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:30	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:30	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 13:10	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 13:10	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 13:10	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%.	70-130		10		03/26/21 13:10	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 13:10	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		10		03/26/21 13:10	460-00-4	
Dibromofluoromethane (S)	96	%.	70-130		10		03/26/21 13:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**48.9**	%	0.10	0.10	1		03/22/21 15:49		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-U (0-0.5) **Lab ID: 30411349004** Collected: 03/17/21 09:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**7.1**	mg/kg	2.1	0.81	1	03/29/21 15:32	03/30/21 15:32	7440-38-2	
Lead	**12.6**	mg/kg	2.1	0.94	1	03/29/21 15:32	03/30/21 15:32	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	15.3	1.4	1	03/23/21 09:29	03/24/21 16:02	83-32-9	
Acenaphthylene	ND	ug/kg	15.3	1.1	1	03/23/21 09:29	03/24/21 16:02	208-96-8	
Anthracene	ND	ug/kg	15.3	1.4	1	03/23/21 09:29	03/24/21 16:02	120-12-7	
Benzo(a)anthracene	**22.3**	ug/kg	15.3	1.8	1	03/23/21 09:29	03/24/21 16:02	56-55-3	
Benzo(a)pyrene	**26.2**	ug/kg	15.3	0.95	1	03/23/21 09:29	03/24/21 16:02	50-32-8	
Benzo(b)fluoranthene	**46.5**	ug/kg	15.3	1.8	1	03/23/21 09:29	03/24/21 16:02	205-99-2	
Benzo(g,h,i)perylene	**18.6**	ug/kg	15.3	2.3	1	03/23/21 09:29	03/24/21 16:02	191-24-2	
Benzo(k)fluoranthene	**17.4**	ug/kg	15.3	2.6	1	03/23/21 09:29	03/24/21 16:02	207-08-9	
Chrysene	**35.2**	ug/kg	15.3	0.79	1	03/23/21 09:29	03/24/21 16:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	15.3	3.4	1	03/23/21 09:29	03/24/21 16:02	53-70-3	
Fluoranthene	**50.1**	ug/kg	15.3	1.2	1	03/23/21 09:29	03/24/21 16:02	206-44-0	
Fluorene	ND	ug/kg	15.3	1.4	1	03/23/21 09:29	03/24/21 16:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**15.4**	ug/kg	15.3	2.9	1	03/23/21 09:29	03/24/21 16:02	193-39-5	
Naphthalene	ND	ug/kg	15.3	3.0	1	03/23/21 09:29	03/24/21 16:02	91-20-3	
Phenanthrene	**45.1**	ug/kg	15.3	1.3	1	03/23/21 09:29	03/24/21 16:02	85-01-8	
Pyrene	**42.4**	ug/kg	15.3	1.7	1	03/23/21 09:29	03/24/21 16:02	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	86	%.	37-88		1	03/23/21 09:29	03/24/21 16:02	321-60-8	
Terphenyl-d14 (S)	94	%.	10-128		1	03/23/21 09:29	03/24/21 16:02	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	15.5	2.9	1	03/24/21 11:35	03/24/21 13:32	91-20-3	
Surrogates									
Toluene-d8 (S)	106	%.	70-130		1	03/24/21 11:35	03/24/21 13:32	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 13:32	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 13:32	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**56.3**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-D (0-0.5) Lab ID: **30411349005** Collected: 03/17/21 09:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**12.3**	mg/kg	1.7	0.67	1	03/29/21 15:32	03/30/21 15:15	7440-38-2	
Lead	**18.5**	mg/kg	1.7	0.77	1	03/29/21 15:32	03/30/21 15:15	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	12.7	1.2	1	03/23/21 09:29	03/24/21 16:20	83-32-9	
Acenaphthylene	**18.2**	ug/kg	12.7	0.91	1	03/23/21 09:29	03/24/21 16:20	208-96-8	
Anthracene	**33.1**	ug/kg	12.7	1.2	1	03/23/21 09:29	03/24/21 16:20	120-12-7	
Benzo(a)anthracene	**116**	ug/kg	12.7	1.5	1	03/23/21 09:29	03/24/21 16:20	56-55-3	
Benzo(a)pyrene	**105**	ug/kg	12.7	0.80	1	03/23/21 09:29	03/24/21 16:20	50-32-8	
Benzo(b)fluoranthene	**240**	ug/kg	12.7	1.5	1	03/23/21 09:29	03/24/21 16:20	205-99-2	R1
Benzo(g,h,i)perylene	**55.3**	ug/kg	12.7	1.9	1	03/23/21 09:29	03/24/21 16:20	191-24-2	
Benzo(k)fluoranthene	**66.8**	ug/kg	12.7	2.1	1	03/23/21 09:29	03/24/21 16:20	207-08-9	
Chrysene	**181**	ug/kg	12.7	0.66	1	03/23/21 09:29	03/24/21 16:20	218-01-9	R1
Dibenz(a,h)anthracene	**19.4**	ug/kg	12.7	2.8	1	03/23/21 09:29	03/24/21 16:20	53-70-3	
Fluoranthene	**248**	ug/kg	12.7	0.96	1	03/23/21 09:29	03/24/21 16:20	206-44-0	R1
Fluorene	ND	ug/kg	12.7	1.2	1	03/23/21 09:29	03/24/21 16:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**53.0**	ug/kg	12.7	2.4	1	03/23/21 09:29	03/24/21 16:20	193-39-5	
Naphthalene	**16.6**	ug/kg	12.7	2.5	1	03/23/21 09:29	03/24/21 16:20	91-20-3	
Phenanthrene	**61.7**	ug/kg	12.7	1.1	1	03/23/21 09:29	03/24/21 16:20	85-01-8	
Pyrene	**234**	ug/kg	12.7	1.4	1	03/23/21 09:29	03/24/21 16:20	129-00-0	R1
Surrogates									
2-Fluorobiphenyl (S)	77	%.	37-88		1	03/23/21 09:29	03/24/21 16:20	321-60-8	
Terphenyl-d14 (S)	74	%.	10-128		1	03/23/21 09:29	03/24/21 16:20	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	12.1	2.3	1	03/24/21 11:35	03/24/21 13:58	91-20-3	
Surrogates									
Toluene-d8 (S)	107	%.	70-130		1	03/24/21 11:35	03/24/21 13:58	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130		1	03/24/21 11:35	03/24/21 13:58	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 13:58	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1	03/24/21 11:35	03/24/21 13:58	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**48.0**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-2 (0-0.5) **Lab ID: 30411349006** Collected: 03/17/21 09:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 10.73 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:33	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:33	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 14:27	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 14:27	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 14:27	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%.	70-130		10		03/26/21 14:27	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 14:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		03/26/21 14:27	460-00-4	
Dibromofluoromethane (S)	96	%.	70-130		10		03/26/21 14:27	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**57.3**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-D (0-0.5) MS **Lab ID: 30411349007** Collected: 03/17/21 09:40 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**99.2**	mg/kg	1.9	0.75	1	03/29/21 15:32	03/30/21 15:21	7440-38-2	
Lead	**103**	mg/kg	1.9	0.87	1	03/29/21 15:32	03/30/21 15:21	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**246**	ug/kg	14.0	1.3	1	03/23/21 09:29	03/24/21 16:38	83-32-9	
Acenaphthylene	**288**	ug/kg	14.0	1.0	1	03/23/21 09:29	03/24/21 16:38	208-96-8	
Anthracene	**308**	ug/kg	14.0	1.3	1	03/23/21 09:29	03/24/21 16:38	120-12-7	
Benzo(a)anthracene	**408**	ug/kg	14.0	1.6	1	03/23/21 09:29	03/24/21 16:38	56-55-3	
Benzo(a)pyrene	**380**	ug/kg	14.0	0.87	1	03/23/21 09:29	03/24/21 16:38	50-32-8	
Benzo(b)fluoranthene	**525**	ug/kg	14.0	1.7	1	03/23/21 09:29	03/24/21 16:38	205-99-2	
Benzo(g,h,i)perylene	**287**	ug/kg	14.0	2.1	1	03/23/21 09:29	03/24/21 16:38	191-24-2	
Benzo(k)fluoranthene	**365**	ug/kg	14.0	2.3	1	03/23/21 09:29	03/24/21 16:38	207-08-9	
Chrysene	**476**	ug/kg	14.0	0.72	1	03/23/21 09:29	03/24/21 16:38	218-01-9	
Dibenz(a,h)anthracene	**253**	ug/kg	14.0	3.1	1	03/23/21 09:29	03/24/21 16:38	53-70-3	
Fluoranthene	**576**	ug/kg	14.0	1.1	1	03/23/21 09:29	03/24/21 16:38	206-44-0	
Fluorene	**259**	ug/kg	14.0	1.3	1	03/23/21 09:29	03/24/21 16:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**290**	ug/kg	14.0	2.7	1	03/23/21 09:29	03/24/21 16:38	193-39-5	
Naphthalene	**255**	ug/kg	14.0	2.7	1	03/23/21 09:29	03/24/21 16:38	91-20-3	
Phenanthrene	**345**	ug/kg	14.0	1.2	1	03/23/21 09:29	03/24/21 16:38	85-01-8	
Pyrene	**544**	ug/kg	14.0	1.6	1	03/23/21 09:29	03/24/21 16:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	87	%.	37-88		1	03/23/21 09:29	03/24/21 16:38	321-60-8	
Terphenyl-d14 (S)	90	%.	10-128		1	03/23/21 09:29	03/24/21 16:38	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	**18.9**	ug/kg	13.2	2.5	1	03/24/21 11:35	03/24/21 14:24	91-20-3	
Surrogates									
Toluene-d8 (S)	106	%.	70-130		1	03/24/21 11:35	03/24/21 14:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 14:24	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	70-130		1	03/24/21 11:35	03/24/21 14:24	17060-07-0	
Dibromofluoromethane (S)	93	%.	70-130		1	03/24/21 11:35	03/24/21 14:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**53.5**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-D (0-0.5) MSD Lab ID: **30411349008** Collected: 03/17/21 09:45 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**89.6**	mg/kg	1.8	0.69	1	03/29/21 15:32	03/30/21 15:24	7440-38-2	
Lead	**91.5**	mg/kg	1.8	0.79	1	03/29/21 15:32	03/30/21 15:24	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**231**	ug/kg	12.9	1.2	1	03/23/21 09:29	03/24/21 16:56	83-32-9	
Acenaphthylene	**259**	ug/kg	12.9	0.93	1	03/23/21 09:29	03/24/21 16:56	208-96-8	
Anthracene	**272**	ug/kg	12.9	1.2	1	03/23/21 09:29	03/24/21 16:56	120-12-7	
Benzo(a)anthracene	**315**	ug/kg	12.9	1.5	1	03/23/21 09:29	03/24/21 16:56	56-55-3	
Benzo(a)pyrene	**313**	ug/kg	12.9	0.81	1	03/23/21 09:29	03/24/21 16:56	50-32-8	
Benzo(b)fluoranthene	**391**	ug/kg	12.9	1.5	1	03/23/21 09:29	03/24/21 16:56	205-99-2	
Benzo(g,h,i)perylene	**245**	ug/kg	12.9	1.9	1	03/23/21 09:29	03/24/21 16:56	191-24-2	
Benzo(k)fluoranthene	**289**	ug/kg	12.9	2.2	1	03/23/21 09:29	03/24/21 16:56	207-08-9	
Chrysene	**324**	ug/kg	12.9	0.67	1	03/23/21 09:29	03/24/21 16:56	218-01-9	
Dibenz(a,h)anthracene	**234**	ug/kg	12.9	2.9	1	03/23/21 09:29	03/24/21 16:56	53-70-3	
Fluoranthene	**376**	ug/kg	12.9	0.98	1	03/23/21 09:29	03/24/21 16:56	206-44-0	
Fluorene	**244**	ug/kg	12.9	1.2	1	03/23/21 09:29	03/24/21 16:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**253**	ug/kg	12.9	2.5	1	03/23/21 09:29	03/24/21 16:56	193-39-5	
Naphthalene	**229**	ug/kg	12.9	2.5	1	03/23/21 09:29	03/24/21 16:56	91-20-3	
Phenanthrene	**279**	ug/kg	12.9	1.1	1	03/23/21 09:29	03/24/21 16:56	85-01-8	
Pyrene	**363**	ug/kg	12.9	1.5	1	03/23/21 09:29	03/24/21 16:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	93	%.	37-88		1	03/23/21 09:29	03/24/21 16:56	321-60-8	ST
Terphenyl-d14 (S)	103	%.	10-128		1	03/23/21 09:29	03/24/21 16:56	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	**13.8**	ug/kg	8.0	1.5	1	03/24/21 11:35	03/24/21 14:50	91-20-3	
Surrogates									
Toluene-d8 (S)	106	%.	70-130		1	03/24/21 11:35	03/24/21 14:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 14:50	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	70-130		1	03/24/21 11:35	03/24/21 14:50	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1	03/24/21 11:35	03/24/21 14:50	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**49.1**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-D (0-0.5) Dup **Lab ID: 30411349009** Collected: 03/17/21 09:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**9.3**	mg/kg	2.2	0.85	1	03/29/21 15:32	03/30/21 15:35	7440-38-2	
Lead	**13.6**	mg/kg	2.2	0.98	1	03/29/21 15:32	03/30/21 15:35	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	14.3	1.3	1	03/23/21 09:29	03/24/21 17:14	83-32-9	
Acenaphthylene	ND	ug/kg	14.3	1.0	1	03/23/21 09:29	03/24/21 17:14	208-96-8	
Anthracene	**24.3**	ug/kg	14.3	1.3	1	03/23/21 09:29	03/24/21 17:14	120-12-7	
Benzo(a)anthracene	**74.7**	ug/kg	14.3	1.7	1	03/23/21 09:29	03/24/21 17:14	56-55-3	
Benzo(a)pyrene	**65.8**	ug/kg	14.3	0.89	1	03/23/21 09:29	03/24/21 17:14	50-32-8	
Benzo(b)fluoranthene	**151**	ug/kg	14.3	1.7	1	03/23/21 09:29	03/24/21 17:14	205-99-2	
Benzo(g,h,i)perylene	**36.2**	ug/kg	14.3	2.2	1	03/23/21 09:29	03/24/21 17:14	191-24-2	
Benzo(k)fluoranthene	**42.3**	ug/kg	14.3	2.4	1	03/23/21 09:29	03/24/21 17:14	207-08-9	
Chrysene	**119**	ug/kg	14.3	0.74	1	03/23/21 09:29	03/24/21 17:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	14.3	3.2	1	03/23/21 09:29	03/24/21 17:14	53-70-3	
Fluoranthene	**156**	ug/kg	14.3	1.1	1	03/23/21 09:29	03/24/21 17:14	206-44-0	
Fluorene	ND	ug/kg	14.3	1.3	1	03/23/21 09:29	03/24/21 17:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**33.3**	ug/kg	14.3	2.7	1	03/23/21 09:29	03/24/21 17:14	193-39-5	
Naphthalene	ND	ug/kg	14.3	2.8	1	03/23/21 09:29	03/24/21 17:14	91-20-3	
Phenanthrene	**38.2**	ug/kg	14.3	1.3	1	03/23/21 09:29	03/24/21 17:14	85-01-8	
Pyrene	**138**	ug/kg	14.3	1.6	1	03/23/21 09:29	03/24/21 17:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	93	%.	37-88		1	03/23/21 09:29	03/24/21 17:14	321-60-8	ST
Terphenyl-d14 (S)	97	%.	10-128		1	03/23/21 09:29	03/24/21 17:14	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	13.5	2.5	1	03/24/21 11:35	03/24/21 15:15	91-20-3	
Surrogates									
Toluene-d8 (S)	105	%.	70-130		1	03/24/21 11:35	03/24/21 15:15	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 15:15	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 15:15	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	03/24/21 11:35	03/24/21 15:15	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**54.2**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-3-U (0-0.5) Lab ID: **30411349010** Collected: 03/17/21 10:55 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**23.9**	mg/kg	3.2	1.3	1	03/29/21 15:32	03/30/21 15:43	7440-38-2	
Lead	**32.4**	mg/kg	3.2	1.5	1	03/29/21 15:32	03/30/21 15:43	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**28.8**	ug/kg	23.2	2.1	1	03/23/21 09:29	03/24/21 17:31	83-32-9	
Acenaphthylene	**44.5**	ug/kg	23.2	1.7	1	03/23/21 09:29	03/24/21 17:31	208-96-8	
Anthracene	**48.0**	ug/kg	23.2	2.1	1	03/23/21 09:29	03/24/21 17:31	120-12-7	
Benzo(a)anthracene	**164**	ug/kg	23.2	2.7	1	03/23/21 09:29	03/24/21 17:31	56-55-3	
Benzo(a)pyrene	**203**	ug/kg	23.2	1.5	1	03/23/21 09:29	03/24/21 17:31	50-32-8	
Benzo(b)fluoranthene	**426**	ug/kg	23.2	2.8	1	03/23/21 09:29	03/24/21 17:31	205-99-2	
Benzo(g,h,i)perylene	**115**	ug/kg	23.2	3.5	1	03/23/21 09:29	03/24/21 17:31	191-24-2	
Benzo(k)fluoranthene	**108**	ug/kg	23.2	3.9	1	03/23/21 09:29	03/24/21 17:31	207-08-9	
Chrysene	**255**	ug/kg	23.2	1.2	1	03/23/21 09:29	03/24/21 17:31	218-01-9	
Dibenz(a,h)anthracene	**39.7**	ug/kg	23.2	5.2	1	03/23/21 09:29	03/24/21 17:31	53-70-3	
Fluoranthene	**279**	ug/kg	23.2	1.8	1	03/23/21 09:29	03/24/21 17:31	206-44-0	
Fluorene	**32.8**	ug/kg	23.2	2.1	1	03/23/21 09:29	03/24/21 17:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**113**	ug/kg	23.2	4.4	1	03/23/21 09:29	03/24/21 17:31	193-39-5	
Naphthalene	**85.5**	ug/kg	23.2	4.5	1	03/23/21 09:29	03/24/21 17:31	91-20-3	
Phenanthrene	**196**	ug/kg	23.2	2.0	1	03/23/21 09:29	03/24/21 17:31	85-01-8	
Pyrene	**273**	ug/kg	23.2	2.6	1	03/23/21 09:29	03/24/21 17:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%.	37-88		1	03/23/21 09:29	03/24/21 17:31	321-60-8	
Terphenyl-d14 (S)	71	%.	10-128		1	03/23/21 09:29	03/24/21 17:31	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	21.4	4.0	1	03/24/21 11:35	03/24/21 15:41	91-20-3	
Surrogates									
Toluene-d8 (S)	109	%.	70-130		1	03/24/21 11:35	03/24/21 15:41	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	70-130		1	03/24/21 11:35	03/24/21 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	70-130		1	03/24/21 11:35	03/24/21 15:41	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	03/24/21 11:35	03/24/21 15:41	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**71.2**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-3-D (0-0.5) **Lab ID: 30411349011** Collected: 03/17/21 10:50 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**10.1**	mg/kg	2.5	0.96	1	03/29/21 15:32	03/30/21 15:46	7440-38-2	
Lead	**43.1**	mg/kg	2.5	1.1	1	03/29/21 15:32	03/30/21 15:46	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**116**	ug/kg	16.3	1.5	1	03/23/21 09:29	03/24/21 17:49	83-32-9	
Acenaphthylene	ND	ug/kg	16.3	1.2	1	03/23/21 09:29	03/24/21 17:49	208-96-8	
Anthracene	**70.4**	ug/kg	16.3	1.5	1	03/23/21 09:29	03/24/21 17:49	120-12-7	
Benzo(a)anthracene	**201**	ug/kg	16.3	1.9	1	03/23/21 09:29	03/24/21 17:49	56-55-3	
Benzo(a)pyrene	**273**	ug/kg	16.3	1.0	1	03/23/21 09:29	03/24/21 17:49	50-32-8	
Benzo(b)fluoranthene	**458**	ug/kg	16.3	2.0	1	03/23/21 09:29	03/24/21 17:49	205-99-2	
Benzo(g,h,i)perylene	**191**	ug/kg	16.3	2.5	1	03/23/21 09:29	03/24/21 17:49	191-24-2	
Benzo(k)fluoranthene	**164**	ug/kg	16.3	2.7	1	03/23/21 09:29	03/24/21 17:49	207-08-9	
Chrysene	**215**	ug/kg	16.3	0.84	1	03/23/21 09:29	03/24/21 17:49	218-01-9	
Dibenz(a,h)anthracene	**46.6**	ug/kg	16.3	3.6	1	03/23/21 09:29	03/24/21 17:49	53-70-3	
Fluoranthene	**382**	ug/kg	16.3	1.2	1	03/23/21 09:29	03/24/21 17:49	206-44-0	
Fluorene	**39.1**	ug/kg	16.3	1.5	1	03/23/21 09:29	03/24/21 17:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**174**	ug/kg	16.3	3.1	1	03/23/21 09:29	03/24/21 17:49	193-39-5	
Naphthalene	**28.8**	ug/kg	16.3	3.2	1	03/23/21 09:29	03/24/21 17:49	91-20-3	
Phenanthrene	**253**	ug/kg	16.3	1.4	1	03/23/21 09:29	03/24/21 17:49	85-01-8	
Pyrene	**325**	ug/kg	16.3	1.8	1	03/23/21 09:29	03/24/21 17:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%	37-88		1	03/23/21 09:29	03/24/21 17:49	321-60-8	
Terphenyl-d14 (S)	80	%	10-128		1	03/23/21 09:29	03/24/21 17:49	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	12.4	2.3	1	03/24/21 11:35	03/24/21 16:07	91-20-3	
Surrogates									
Toluene-d8 (S)	104	%	70-130		1	03/24/21 11:35	03/24/21 16:07	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130		1	03/24/21 11:35	03/24/21 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1	03/24/21 11:35	03/24/21 16:07	17060-07-0	
Dibromofluoromethane (S)	101	%	70-130		1	03/24/21 11:35	03/24/21 16:07	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**60.0**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-3 (0-0.5) **Lab ID: 30411349012** Collected: 03/17/21 11:00 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 9.71 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:36	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:36	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 14:53	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 14:53	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 14:53	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	70-130		10		03/26/21 14:53	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 14:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		10		03/26/21 14:53	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		03/26/21 14:53	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**66.9**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-4-U (0-0.5) **Lab ID: 30411349013** Collected: 03/17/21 11:55 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.8**	mg/kg	2.9	1.1	1	03/29/21 15:32	03/30/21 15:49	7440-38-2	
Lead	**18.5**	mg/kg	2.9	1.3	1	03/29/21 15:32	03/30/21 15:49	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	20.2	1.8	1	03/23/21 09:29	03/24/21 18:07	83-32-9	
Acenaphthylene	**48.4**	ug/kg	20.2	1.4	1	03/23/21 09:29	03/24/21 18:07	208-96-8	
Anthracene	**58.3**	ug/kg	20.2	1.8	1	03/23/21 09:29	03/24/21 18:07	120-12-7	
Benzo(a)anthracene	**241**	ug/kg	20.2	2.4	1	03/23/21 09:29	03/24/21 18:07	56-55-3	
Benzo(a)pyrene	**278**	ug/kg	20.2	1.3	1	03/23/21 09:29	03/24/21 18:07	50-32-8	
Benzo(b)fluoranthene	**564**	ug/kg	20.2	2.4	1	03/23/21 09:29	03/24/21 18:07	205-99-2	
Benzo(g,h,i)perylene	**121**	ug/kg	20.2	3.0	1	03/23/21 09:29	03/24/21 18:07	191-24-2	
Benzo(k)fluoranthene	**175**	ug/kg	20.2	3.4	1	03/23/21 09:29	03/24/21 18:07	207-08-9	
Chrysene	**321**	ug/kg	20.2	1.0	1	03/23/21 09:29	03/24/21 18:07	218-01-9	
Dibenz(a,h)anthracene	**43.2**	ug/kg	20.2	4.5	1	03/23/21 09:29	03/24/21 18:07	53-70-3	
Fluoranthene	**434**	ug/kg	20.2	1.5	1	03/23/21 09:29	03/24/21 18:07	206-44-0	
Fluorene	ND	ug/kg	20.2	1.9	1	03/23/21 09:29	03/24/21 18:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**121**	ug/kg	20.2	3.8	1	03/23/21 09:29	03/24/21 18:07	193-39-5	
Naphthalene	**30.6**	ug/kg	20.2	3.9	1	03/23/21 09:29	03/24/21 18:07	91-20-3	
Phenanthrene	**63.0**	ug/kg	20.2	1.8	1	03/23/21 09:29	03/24/21 18:07	85-01-8	
Pyrene	**485**	ug/kg	20.2	2.3	1	03/23/21 09:29	03/24/21 18:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%.	37-88		1	03/23/21 09:29	03/24/21 18:07	321-60-8	
Terphenyl-d14 (S)	93	%.	10-128		1	03/23/21 09:29	03/24/21 18:07	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	17.9	3.4	1	03/24/21 11:35	03/24/21 16:33	91-20-3	
Surrogates									
Toluene-d8 (S)	108	%.	70-130		1	03/24/21 11:35	03/24/21 16:33	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	70-130		1	03/24/21 11:35	03/24/21 16:33	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1	03/24/21 11:35	03/24/21 16:33	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 16:33	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**66.9**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-4 (0-0.5) **Lab ID: 30411349014** Collected: 03/17/21 12:00 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 10.37 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:38	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:38	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 15:19	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 15:19	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 15:19	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	70-130		10		03/26/21 15:19	17060-07-0	
Toluene-d8 (S)	103	%.	70-130		10		03/26/21 15:19	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		03/26/21 15:19	460-00-4	
Dibromofluoromethane (S)	96	%.	70-130		10		03/26/21 15:19	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**64.4**	%	0.10	0.10	1		03/22/21 15:50		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-5-U (0-0.5) **Lab ID: 30411349015** Collected: 03/17/21 13:35 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	ND	mg/kg	4.6	1.8	1	03/29/21 15:32	03/30/21 15:52	7440-38-2	
Lead	14.8	mg/kg	4.6	2.1	1	03/29/21 15:32	03/30/21 15:52	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	32.5	2.9	1	03/23/21 09:29	03/24/21 18:25	83-32-9	
Acenaphthylene	ND	ug/kg	32.5	2.3	1	03/23/21 09:29	03/24/21 18:25	208-96-8	
Anthracene	ND	ug/kg	32.5	2.9	1	03/23/21 09:29	03/24/21 18:25	120-12-7	
Benzo(a)anthracene	ND	ug/kg	32.5	3.8	1	03/23/21 09:29	03/24/21 18:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	32.5	2.0	1	03/23/21 09:29	03/24/21 18:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	32.5	3.9	1	03/23/21 09:29	03/24/21 18:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	32.5	4.9	1	03/23/21 09:29	03/24/21 18:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	32.5	5.5	1	03/23/21 09:29	03/24/21 18:25	207-08-9	
Chrysene	ND	ug/kg	32.5	1.7	1	03/23/21 09:29	03/24/21 18:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	32.5	7.2	1	03/23/21 09:29	03/24/21 18:25	53-70-3	
Fluoranthene	ND	ug/kg	32.5	2.5	1	03/23/21 09:29	03/24/21 18:25	206-44-0	
Fluorene	ND	ug/kg	32.5	3.0	1	03/23/21 09:29	03/24/21 18:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	32.5	6.2	1	03/23/21 09:29	03/24/21 18:25	193-39-5	
Naphthalene	ND	ug/kg	32.5	6.3	1	03/23/21 09:29	03/24/21 18:25	91-20-3	
Phenanthrene	ND	ug/kg	32.5	2.9	1	03/23/21 09:29	03/24/21 18:25	85-01-8	
Pyrene	ND	ug/kg	32.5	3.7	1	03/23/21 09:29	03/24/21 18:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	94	%.	37-88		1	03/23/21 09:29	03/24/21 18:25	321-60-8	ST
Terphenyl-d14 (S)	97	%.	10-128		1	03/23/21 09:29	03/24/21 18:25	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	21.3	4.0	1	03/24/21 11:35	03/24/21 16:59	91-20-3	
Surrogates									
Toluene-d8 (S)	112	%.	70-130		1	03/24/21 11:35	03/24/21 16:59	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	70-130		1	03/24/21 11:35	03/24/21 16:59	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 16:59	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 16:59	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	79.7	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-5-D (0-0.5) **Lab ID: 30411349016** Collected: 03/17/21 13:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**10.5**	mg/kg	1.6	0.64	1	03/29/21 15:32	03/30/21 15:55	7440-38-2	
Lead	**13.6**	mg/kg	1.6	0.74	1	03/29/21 15:32	03/30/21 15:55	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	11.8	1.1	1	03/23/21 09:29	03/24/21 18:42	83-32-9	
Acenaphthylene	ND	ug/kg	11.8	0.85	1	03/23/21 09:29	03/24/21 18:42	208-96-8	
Anthracene	ND	ug/kg	11.8	1.1	1	03/23/21 09:29	03/24/21 18:42	120-12-7	
Benzo(a)anthracene	**47.5**	ug/kg	11.8	1.4	1	03/23/21 09:29	03/24/21 18:42	56-55-3	
Benzo(a)pyrene	**37.2**	ug/kg	11.8	0.74	1	03/23/21 09:29	03/24/21 18:42	50-32-8	
Benzo(b)fluoranthene	**63.3**	ug/kg	11.8	1.4	1	03/23/21 09:29	03/24/21 18:42	205-99-2	
Benzo(g,h,i)perylene	**15.9**	ug/kg	11.8	1.8	1	03/23/21 09:29	03/24/21 18:42	191-24-2	
Benzo(k)fluoranthene	**21.6**	ug/kg	11.8	2.0	1	03/23/21 09:29	03/24/21 18:42	207-08-9	
Chrysene	**48.9**	ug/kg	11.8	0.61	1	03/23/21 09:29	03/24/21 18:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.8	2.6	1	03/23/21 09:29	03/24/21 18:42	53-70-3	
Fluoranthene	**85.0**	ug/kg	11.8	0.90	1	03/23/21 09:29	03/24/21 18:42	206-44-0	
Fluorene	ND	ug/kg	11.8	1.1	1	03/23/21 09:29	03/24/21 18:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**14.9**	ug/kg	11.8	2.3	1	03/23/21 09:29	03/24/21 18:42	193-39-5	
Naphthalene	**13.2**	ug/kg	11.8	2.3	1	03/23/21 09:29	03/24/21 18:42	91-20-3	
Phenanthrene	**37.8**	ug/kg	11.8	1.0	1	03/23/21 09:29	03/24/21 18:42	85-01-8	
Pyrene	**76.8**	ug/kg	11.8	1.3	1	03/23/21 09:29	03/24/21 18:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	95	%.	37-88		1	03/23/21 09:29	03/24/21 18:42	321-60-8	ST
Terphenyl-d14 (S)	100	%.	10-128		1	03/23/21 09:29	03/24/21 18:42	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	11.1	2.1	1	03/24/21 11:35	03/24/21 17:24	91-20-3	
Surrogates									
Toluene-d8 (S)	105	%.	70-130		1	03/24/21 11:35	03/24/21 17:24	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	03/24/21 11:35	03/24/21 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 17:24	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1	03/24/21 11:35	03/24/21 17:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**44.7**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-5- (0-0.5) **Lab ID: 30411349017** Collected: 03/17/21 13:40 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 10.29 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:41	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:41	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 15:45	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 15:45	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 15:45	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	70-130		10		03/26/21 15:45	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 15:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		03/26/21 15:45	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		03/26/21 15:45	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**80.5**	%	0.10	0.10	1		03/22/21 15:50		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-6-U (0-0.5) **Lab ID: 30411349018** Collected: 03/17/21 16:00 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**7.2**	mg/kg	2.2	0.88	1	03/29/21 15:32	03/30/21 15:57	7440-38-2	
Lead	**15.9**	mg/kg	2.2	1.0	1	03/29/21 15:32	03/30/21 15:57	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	15.6	1.4	1	03/23/21 09:29	03/24/21 19:00	83-32-9	
Acenaphthylene	ND	ug/kg	15.6	1.1	1	03/23/21 09:29	03/24/21 19:00	208-96-8	
Anthracene	ND	ug/kg	15.6	1.4	1	03/23/21 09:29	03/24/21 19:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	15.6	1.8	1	03/23/21 09:29	03/24/21 19:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	15.6	0.97	1	03/23/21 09:29	03/24/21 19:00	50-32-8	
Benzo(b)fluoranthene	**26.8**	ug/kg	15.6	1.9	1	03/23/21 09:29	03/24/21 19:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	15.6	2.3	1	03/23/21 09:29	03/24/21 19:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	15.6	2.6	1	03/23/21 09:29	03/24/21 19:00	207-08-9	
Chrysene	**20.3**	ug/kg	15.6	0.80	1	03/23/21 09:29	03/24/21 19:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	15.6	3.5	1	03/23/21 09:29	03/24/21 19:00	53-70-3	
Fluoranthene	**20.1**	ug/kg	15.6	1.2	1	03/23/21 09:29	03/24/21 19:00	206-44-0	
Fluorene	ND	ug/kg	15.6	1.4	1	03/23/21 09:29	03/24/21 19:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	15.6	3.0	1	03/23/21 09:29	03/24/21 19:00	193-39-5	
Naphthalene	ND	ug/kg	15.6	3.0	1	03/23/21 09:29	03/24/21 19:00	91-20-3	
Phenanthrene	ND	ug/kg	15.6	1.4	1	03/23/21 09:29	03/24/21 19:00	85-01-8	
Pyrene	**18.1**	ug/kg	15.6	1.7	1	03/23/21 09:29	03/24/21 19:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	89	%.	37-88		1	03/23/21 09:29	03/24/21 19:00	321-60-8	ST
Terphenyl-d14 (S)	91	%.	10-128		1	03/23/21 09:29	03/24/21 19:00	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	13.5	2.5	1	03/24/21 11:35	03/24/21 17:50	91-20-3	
Surrogates									
Toluene-d8 (S)	104	%.	70-130		1	03/24/21 11:35	03/24/21 17:50	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 17:50	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 17:50	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**57.2**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-6 (0-0.5) **Lab ID: 30411349019** Collected: 03/17/21 16:05 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 10.67 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:44	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:44	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 16:10	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 16:10	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 16:10	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	70-130		10		03/26/21 16:10	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 16:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		03/26/21 16:10	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		03/26/21 16:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**59.1**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-7-U (0-0.5) **Lab ID: 30411349020** Collected: 03/17/21 17:55 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**14.7**	mg/kg	2.0	0.80	1	03/29/21 15:32	03/30/21 16:00	7440-38-2	
Lead	**23.2**	mg/kg	2.0	0.92	1	03/29/21 15:32	03/30/21 16:00	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	15.4	1.4	1	03/23/21 09:29	03/24/21 19:18	83-32-9	
Acenaphthylene	ND	ug/kg	15.4	1.1	1	03/23/21 09:29	03/24/21 19:18	208-96-8	
Anthracene	ND	ug/kg	15.4	1.4	1	03/23/21 09:29	03/24/21 19:18	120-12-7	
Benzo(a)anthracene	**34.0**	ug/kg	15.4	1.8	1	03/23/21 09:29	03/24/21 19:18	56-55-3	
Benzo(a)pyrene	**40.7**	ug/kg	15.4	0.96	1	03/23/21 09:29	03/24/21 19:18	50-32-8	
Benzo(b)fluoranthene	**84.8**	ug/kg	15.4	1.8	1	03/23/21 09:29	03/24/21 19:18	205-99-2	
Benzo(g,h,i)perylene	**22.5**	ug/kg	15.4	2.3	1	03/23/21 09:29	03/24/21 19:18	191-24-2	
Benzo(k)fluoranthene	**24.6**	ug/kg	15.4	2.6	1	03/23/21 09:29	03/24/21 19:18	207-08-9	
Chrysene	**52.7**	ug/kg	15.4	0.80	1	03/23/21 09:29	03/24/21 19:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	15.4	3.4	1	03/23/21 09:29	03/24/21 19:18	53-70-3	
Fluoranthene	**46.9**	ug/kg	15.4	1.2	1	03/23/21 09:29	03/24/21 19:18	206-44-0	
Fluorene	ND	ug/kg	15.4	1.4	1	03/23/21 09:29	03/24/21 19:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**20.4**	ug/kg	15.4	2.9	1	03/23/21 09:29	03/24/21 19:18	193-39-5	
Naphthalene	**28.9**	ug/kg	15.4	3.0	1	03/23/21 09:29	03/24/21 19:18	91-20-3	
Phenanthrene	**46.1**	ug/kg	15.4	1.4	1	03/23/21 09:29	03/24/21 19:18	85-01-8	
Pyrene	**50.6**	ug/kg	15.4	1.7	1	03/23/21 09:29	03/24/21 19:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	37-88		1	03/23/21 09:29	03/24/21 19:18	321-60-8	ST
Terphenyl-d14 (S)	93	%.	10-128		1	03/23/21 09:29	03/24/21 19:18	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	14.0	2.6	1	03/24/21 11:35	03/24/21 18:16	91-20-3	
Surrogates									
Toluene-d8 (S)	107	%.	70-130		1	03/24/21 11:35	03/24/21 18:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 18:16	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 18:16	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	03/24/21 11:35	03/24/21 18:16	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**56.9**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-7 (0-0.5) **Lab ID: 30411349021** Collected: 03/17/21 18:00 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 03/26/21 13:18 Initial pH: ; Final pH: 9 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/29/21 10:20	03/31/21 14:06	7440-38-2	4c,6c, 8c
Lead	ND	mg/L	0.025	0.0031	1	03/29/21 10:20	03/31/21 14:06	7439-92-1	4c,6c, 8c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 16:36	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 16:36	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 16:36	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	70-130		10		03/26/21 16:36	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 16:36	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		03/26/21 16:36	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		03/26/21 16:36	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**62.2**	%	0.10	0.10	1		03/22/21 16:04		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Field Blank 1 **Lab ID: 30411349022** Collected: 03/16/21 14:30 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	03/23/21 16:05	03/25/21 14:22	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	03/23/21 16:05	03/25/21 14:22	7439-92-1	
Total Hardness by SM2340B-2011	**1.2**	ug/L			1	03/23/21 16:05	03/25/21 14:22		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.098	0.022	1	03/23/21 10:04	03/24/21 19:37	83-32-9	1c
Acenaphthylene	ND	ug/L	0.098	0.021	1	03/23/21 10:04	03/24/21 19:37	208-96-8	1c
Anthracene	ND	ug/L	0.098	0.022	1	03/23/21 10:04	03/24/21 19:37	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.098	0.080	1	03/23/21 10:04	03/24/21 19:37	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.098	0.025	1	03/23/21 10:04	03/24/21 19:37	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.098	0.041	1	03/23/21 10:04	03/24/21 19:37	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.098	0.030	1	03/23/21 10:04	03/24/21 19:37	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.098	0.041	1	03/23/21 10:04	03/24/21 19:37	207-08-9	1c
Chrysene	ND	ug/L	0.098	0.032	1	03/23/21 10:04	03/24/21 19:37	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.098	0.030	1	03/23/21 10:04	03/24/21 19:37	53-70-3	1c
Fluoranthene	ND	ug/L	0.098	0.020	1	03/23/21 10:04	03/24/21 19:37	206-44-0	1c
Fluorene	ND	ug/L	0.098	0.022	1	03/23/21 10:04	03/24/21 19:37	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.098	0.033	1	03/23/21 10:04	03/24/21 19:37	193-39-5	1c
Naphthalene	ND	ug/L	0.098	0.042	1	03/23/21 10:04	03/24/21 19:37	91-20-3	1c
Phenanthrene	ND	ug/L	0.098	0.027	1	03/23/21 10:04	03/24/21 19:37	85-01-8	1c
Pyrene	ND	ug/L	0.098	0.020	1	03/23/21 10:04	03/24/21 19:37	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	87	%.	19-92		1	03/23/21 10:04	03/24/21 19:37	321-60-8	
Terphenyl-d14 (S)	97	%.	55-109		1	03/23/21 10:04	03/24/21 19:37	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 12:51	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	70-130		1		03/27/21 12:51	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1		03/27/21 12:51	17060-07-0	
Toluene-d8 (S)	107	%.	70-130		1		03/27/21 12:51	2037-26-5	
Dibromofluoromethane (S)	98	%.	70-130		1		03/27/21 12:51	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Equipment Blank 1 **Lab ID: 30411349023** Collected: 03/16/21 09:00 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	03/23/21 16:05	03/25/21 14:25	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	03/23/21 16:05	03/25/21 14:25	7439-92-1	
Total Hardness by SM2340B-2011	8.0	ug/L			1	03/23/21 16:05	03/25/21 14:25		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 19:54	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 19:54	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 19:54	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.089	1	03/23/21 10:04	03/24/21 19:54	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.028	1	03/23/21 10:04	03/24/21 19:54	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.046	1	03/23/21 10:04	03/24/21 19:54	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.034	1	03/23/21 10:04	03/24/21 19:54	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.046	1	03/23/21 10:04	03/24/21 19:54	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.036	1	03/23/21 10:04	03/24/21 19:54	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.034	1	03/23/21 10:04	03/24/21 19:54	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.022	1	03/23/21 10:04	03/24/21 19:54	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 19:54	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.037	1	03/23/21 10:04	03/24/21 19:54	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.047	1	03/23/21 10:04	03/24/21 19:54	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.030	1	03/23/21 10:04	03/24/21 19:54	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 19:54	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	81	%.	19-92		1	03/23/21 10:04	03/24/21 19:54	321-60-8	
Terphenyl-d14 (S)	96	%.	55-109		1	03/23/21 10:04	03/24/21 19:54	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 13:17	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		03/27/21 13:17	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		03/27/21 13:17	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		1		03/27/21 13:17	2037-26-5	
Dibromofluoromethane (S)	95	%.	70-130		1		03/27/21 13:17	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Field Blank 2 **Lab ID: 30411349024** Collected: 03/16/21 17:05 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	03/23/21 16:05	03/25/21 14:28	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	03/23/21 16:05	03/25/21 14:28	7439-92-1	
Total Hardness by SM2340B-2011	3.9	ug/L			1	03/23/21 16:05	03/25/21 14:28		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 20:10	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 20:10	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 20:10	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.091	1	03/23/21 10:04	03/24/21 20:10	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.029	1	03/23/21 10:04	03/24/21 20:10	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.047	1	03/23/21 10:04	03/24/21 20:10	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.034	1	03/23/21 10:04	03/24/21 20:10	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.047	1	03/23/21 10:04	03/24/21 20:10	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.037	1	03/23/21 10:04	03/24/21 20:10	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.035	1	03/23/21 10:04	03/24/21 20:10	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 20:10	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 20:10	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.037	1	03/23/21 10:04	03/24/21 20:10	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.048	1	03/23/21 10:04	03/24/21 20:10	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.030	1	03/23/21 10:04	03/24/21 20:10	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 20:10	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	83	%.	19-92		1	03/23/21 10:04	03/24/21 20:10	321-60-8	
Terphenyl-d14 (S)	96	%.	55-109		1	03/23/21 10:04	03/24/21 20:10	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 13:44	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	70-130		1		03/27/21 13:44	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%.	70-130		1		03/27/21 13:44	17060-07-0	
Toluene-d8 (S)	106	%.	70-130		1		03/27/21 13:44	2037-26-5	
Dibromofluoromethane (S)	97	%.	70-130		1		03/27/21 13:44	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Equipment Blank 2 Lab ID: **30411349025** Collected: 03/16/21 17:00 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	03/23/21 16:05	03/25/21 14:31	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	03/23/21 16:05	03/25/21 14:31	7439-92-1	
Total Hardness by SM2340B-2011	39.5	ug/L			1	03/23/21 16:05	03/25/21 14:31		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 20:27	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 20:27	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 20:27	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.086	1	03/23/21 10:04	03/24/21 20:27	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.027	1	03/23/21 10:04	03/24/21 20:27	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.044	1	03/23/21 10:04	03/24/21 20:27	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.032	1	03/23/21 10:04	03/24/21 20:27	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.044	1	03/23/21 10:04	03/24/21 20:27	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.034	1	03/23/21 10:04	03/24/21 20:27	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.033	1	03/23/21 10:04	03/24/21 20:27	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.021	1	03/23/21 10:04	03/24/21 20:27	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 20:27	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.035	1	03/23/21 10:04	03/24/21 20:27	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.045	1	03/23/21 10:04	03/24/21 20:27	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.029	1	03/23/21 10:04	03/24/21 20:27	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.022	1	03/23/21 10:04	03/24/21 20:27	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	78	%.	19-92		1	03/23/21 10:04	03/24/21 20:27	321-60-8	
Terphenyl-d14 (S)	94	%.	55-109		1	03/23/21 10:04	03/24/21 20:27	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 14:10	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		03/27/21 14:10	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1		03/27/21 14:10	17060-07-0	
Toluene-d8 (S)	103	%.	70-130		1		03/27/21 14:10	2037-26-5	
Dibromofluoromethane (S)	93	%.	70-130		1		03/27/21 14:10	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Trip Blank 1 **Lab ID: 30411349026** Collected: 03/16/21 00:01 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 14:37	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	70-130		1		03/27/21 14:37	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		03/27/21 14:37	17060-07-0	
Toluene-d8 (S)	107	%.	70-130		1		03/27/21 14:37	2037-26-5	
Dibromofluoromethane (S)	98	%.	70-130		1		03/27/21 14:37	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Trip Blank 2 **Lab ID: 30411349027** Collected: 03/16/21 00:01 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 15:03	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	70-130		1		03/27/21 15:03	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1		03/27/21 15:03	17060-07-0	
Toluene-d8 (S)	105	%.	70-130		1		03/27/21 15:03	2037-26-5	
Dibromofluoromethane (S)	91	%.	70-130		1		03/27/21 15:03	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Trip Blank 3 **Lab ID: 30411349028** Collected: 03/16/21 00:01 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 15:30	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	70-130		1		03/27/21 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		03/27/21 15:30	17060-07-0	
Toluene-d8 (S)	105	%.	70-130		1		03/27/21 15:30	2037-26-5	
Dibromofluoromethane (S)	96	%.	70-130		1		03/27/21 15:30	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-1(0-0.5) Leachate **Lab ID: 30411349029** Collected: 03/26/21 09:37 Received: 03/26/21 09:37 Matrix: Water
Comments: • sample is an SPLP leachate of 30411349 003

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 16:36	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 16:36	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 16:36	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 16:36	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 16:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 16:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 16:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 16:36	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 16:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 16:36	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 16:36	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 16:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 16:36	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 16:36	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 16:36	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 16:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%.	19-92		1	03/30/21 13:09	04/01/21 16:36	321-60-8	
Terphenyl-d14 (S)	95	%.	55-109		1	03/30/21 13:09	04/01/21 16:36	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-2(0-0.5) Leachate **Lab ID: 30411349030** Collected: 03/26/21 09:58 Received: 03/26/21 09:58 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 006

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 17:26	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 17:26	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 17:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 17:26	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 17:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 17:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:26	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 17:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 17:26	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 17:26	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 17:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 17:26	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:26	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 17:26	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 17:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	19-92		1	03/30/21 13:09	04/01/21 17:26	321-60-8	
Terphenyl-d14 (S)	91	%.	55-109		1	03/30/21 13:09	04/01/21 17:26	1718-51-0	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-3(0-0.5) Leachate **Lab ID: 30411349031** Collected: 03/26/21 10:05 Received: 03/26/21 10:05 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 011

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 17:43	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 17:43	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 17:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 17:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 17:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 17:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:43	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 17:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 17:43	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 17:43	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 17:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 17:43	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:43	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 17:43	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 17:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	88	%.	19-92		1	03/30/21 13:09	04/01/21 17:43	321-60-8	
Terphenyl-d14 (S)	98	%.	55-109		1	03/30/21 13:09	04/01/21 17:43	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-4(0-0.5) Leachate **Lab ID: 30411349032** Collected: 03/26/21 10:29 Received: 03/26/21 10:29 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 014

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 18:00	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:00	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:00	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 18:00	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 18:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:00	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:00	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 18:00	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:00	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:00	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 18:00	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	19-92		1	03/30/21 13:09	04/01/21 18:00	321-60-8	
Terphenyl-d14 (S)	89	%.	55-109		1	03/30/21 13:09	04/01/21 18:00	1718-51-0	

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-5(0-0.5) Leachate **Lab ID: 30411349033** Collected: 03/26/21 10:30 Received: 03/26/21 10:30 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 017

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 18:17	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:17	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 18:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 18:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:17	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:17	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 18:17	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:17	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:17	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 18:17	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%.	19-92		1	03/30/21 13:09	04/01/21 18:17	321-60-8	
Terphenyl-d14 (S)	89	%.	55-109		1	03/30/21 13:09	04/01/21 18:17	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-6(0-0.5) Leachate **Lab ID: 30411349034** Collected: 03/26/21 10:44 Received: 03/26/21 10:44 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 019

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 18:33	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:33	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 18:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 18:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:33	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:33	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 18:33	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:33	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:33	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 18:33	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	87	%.	19-92		1	03/30/21 13:09	04/01/21 18:33	321-60-8	
Terphenyl-d14 (S)	94	%.	55-109		1	03/30/21 13:09	04/01/21 18:33	1718-51-0	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-7(0-0.5) Leachate **Lab ID: 30411349035** Collected: 03/27/21 07:17 Received: 03/27/21 07:17 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 021

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 18:50	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:50	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 18:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 18:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:50	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:50	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 18:50	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:50	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:50	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 18:50	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81	%.	19-92		1	03/30/21 13:09	04/01/21 18:50	321-60-8	
Terphenyl-d14 (S)	89	%.	55-109		1	03/30/21 13:09	04/01/21 18:50	1718-51-0	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30405475001	SSS-15(0'-2')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475002	SSB-15(2'-8')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475003	SSS-14(0'-2')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475004	SSB-14(2'-8')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475005	SSB-14(2'-8') Dup	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475006	SSS-13(0'-2')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475007	SSB-13(2'-8')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475008	SSS-12(0'-2')	EPA 6010D	CTS	2
		EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475009	SSS-12(0'-2')(SPLP)	EPA 8270E By SIM	CF1	18
30405475010	SSS-12(0'-2')MS	EPA 6010D	CTS	2
		EPA 6010D	CTS	2

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No. 30405475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475011	SSS-12(0'-2')MS(SPLP)	EPA 8270E By SIM	CF1	18
30405475012	SSS-12(0'-2')MSD	EPA 6010D	CTS	2
		EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475013	SSS-12(0'-2')MSD(SPLP)	EPA 8270E By SIM	CF1	18
30405475014	SSB-12(2'-8')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475015	SSS-11(0'-2')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475016	SSB-11(2'-8')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475017	Equipment Blank 1	EPA 6010D	CTS	3
		EPA 8270E By SIM	CF1	18
30405475018	Field Blank 1	EPA 6010D	CTS	3
		EPA 8270E By SIM	CF1	18
30405475019	SSS-10 (0'-2')	EPA 6010D	CTS	2
		EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475020	SSS-10 (0'-2')(SPLP)	EPA 8270E By SIM	CF1	18
30405475021	SSS-10 (0'-2')MS	EPA 6010D	CTS	2
		EPA 6010D	CTS	2

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475022	SSS-10 (0'-2')MS(SPLP)	EPA 8270E By SIM	CF1	18
30405475023	SSS-10 (0'-2')MSD	EPA 6010D	CTS	2
		EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475024	SSS-10 (0'-2')MSD(SPLP)	EPA 8270E By SIM	CF1	18
30405475025	Equipment Blank 2	EPA 6010D	CTS	3
		EPA 8270E By SIM	CF1	18
		EPA 8260C	LEL	5
30405475026	SSB-10 (2'-8')	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475027	SSS-9 (0-2)	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475028	SSS-9 (0-2) Dup	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475029	SSS-9 (2-8)	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475030	Field Blank	EPA 6010D	CTS	3
		EPA 8270E By SIM	CF1	18
		EPA 8260C	LEL	5
30405475031	Trip Blank 1	EPA 8260C	LEL	5

PASI-PA = Pace Analytical Services - Greensburg

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30405879001	SSS-02(0'-2')	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879002	SSS-02(0'-2')(SPLP)	EPA 8270E By SIM	CF1	18	PASI-PA
30405879003	SSB-02(2'-8')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879004	SSS-03(0'-2')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879005	SSB-03(2'-8')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879006	SSB-03(2'-8')DUP	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879007	SSS-04(0'-2')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879008	SSB-04(2'-8')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879009	SSB-05(0'-2')	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	JEW	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879010	SSB-05(0'-2')(SPLP)	EPA 8270E By SIM	CF1	18	PASI-PA
30405879011	SSB-05(0'-2')MS	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879012	SSB-05(0'-2')MS(SPLP)	EPA 8270E By SIM	CF1	18	PASI-PA
30405879013	SSB-05(0'-2')MSD	EPA 6010D	CTS	2	PASI-PA

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879014	SSB-05(0'-2')MSD(SPLP)	EPA 8270E By SIM	CF1	18	PASI-PA
30405879015	SSB-05(2'-8')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879016	Equipment Blank 3	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405879017	Field Blank 3	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405879018	Trip Blank 2	EPA 8260C	JAS	5	PASI-PA
30405879019	Trip Blank 3	EPA 8260C	JAS	5	PASI-PA
30405879020	SSS-06 (0'-2')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879021	SSB-06 (2'-8')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879022	SSS-07 (0'-2')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879023	SSB-07 (2'-8')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879024	SSB-07 (2'-8')DUP	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879025	SSS-08 (0'-2')	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	ZEM	1	PASI-PA
30405879026	SSS-08 (0'-2')(SPLP)	EPA 8270E By SIM	CF1	18	PASI-PA
30405879027	SSS-08 (0'-2')MS	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879028	SSS-08 (0'-2')MS(SPLP)	EPA 8270E By SIM	CF1	18	PASI-PA
30405879029	SSS-08 (0'-2')MSD	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879030	SSS-08 (0'-2')MSD(SPLP)	EPA 8270E By SIM	CF1	18	PASI-PA
30405879031	SSB-08 (2'-8')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879032	Equipment Blank 4	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405879033	Field Blank 4	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405879034	Trip Blank 4	EPA 8260C	JAS	5	PASI-PA
30405879035	Trip Blank 5	EPA 8260C	JAS	5	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30405885001	SSS-01 (0'-2')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885002	SSS-01 (0'-2') MS	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885003	SSS-01 (0'-2') MSD	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885004	SSB-01 (2'-8')	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885005	SSB-01 (2'-8') Dup	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885006	Field Blank 5	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405885007	Equipment Blank 5	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405885008	Trip Blank	EPA 8260C	JAS	5	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30411349001	SED-1-U (0-0.5)	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349002	SED-1-D (0-0.5)	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349003	SPLP-1 (0-0.5)	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349004	SED-2-U (0-0.5)	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349005	SED-2-D (0-0.5)	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349006	SPLP-2 (0-0.5)	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349007	SED-2-D (0-0.5) MS	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349008	SED-2-D (0-0.5) MSD	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349009	SED-2-D (0-0.5) Dup	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349010	SED-3-U (0-0.5)	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30411349011	SED-3-D (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
30411349012	SPLP-3 (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
30411349013	SED-4-U (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
30411349014	SPLP-4 (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
30411349015	SED-5-U (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
30411349016	SED-5-D (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
30411349017	SPLP-5- (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
30411349018	SED-6-U (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
30411349019	SPLP-6 (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
30411349020	SED-7-U (0-0.5)	ASTM D2974-87	CED	1	PASI-PA
		EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30411349021	SPLP-7 (0-0.5)	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349022	Field Blank 1	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30411349023	Equipment Blank 1	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30411349024	Field Blank 2	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30411349025	Equipment Blank 2	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30411349026	Trip Blank 1	EPA 8260C	JAS	5	PASI-PA
30411349027	Trip Blank 2	EPA 8260C	JAS	5	PASI-PA
30411349028	Trip Blank 3	EPA 8260C	JAS	5	PASI-PA
30411349029	SPLP-1(0-0.5) Leachate	EPA 8270E By SIM	CF1	18	PASI-PA
30411349030	SPLP-2(0-0.5) Leachate	EPA 8270E By SIM	CF1	18	PASI-PA
30411349031	SPLP-3(0-0.5) Leachate	EPA 8270E By SIM	CF1	18	PASI-PA
30411349032	SPLP-4(0-0.5) Leachate	EPA 8270E By SIM	CF1	18	PASI-PA
30411349033	SPLP-5(0-0.5) Leachate	EPA 8270E By SIM	CF1	18	PASI-PA
30411349034	SPLP-6(0-0.5) Leachate	EPA 8270E By SIM	CF1	18	PASI-PA
30411349035	SPLP-7(0-0.5) Leachate	EPA 8270E By SIM	CF1	18	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405475001	SSS-15(0'-2')	EPA 3050B	434655	EPA 6010D	434707
30405475002	SSB-15(2'-8')	EPA 3050B	434655	EPA 6010D	434707
30405475003	SSS-14(0'-2')	EPA 3050B	434655	EPA 6010D	434707
30405475004	SSB-14(2'-8')	EPA 3050B	434655	EPA 6010D	434707
30405475005	SSB-14(2'-8') Dup	EPA 3050B	434655	EPA 6010D	434707
30405475006	SSS-13(0'-2')	EPA 3050B	434655	EPA 6010D	434707
30405475007	SSB-13(2'-8')	EPA 3050B	434655	EPA 6010D	434707
30405475008	SSS-12(0'-2')	EPA 3050B	435206	EPA 6010D	435255
30405475010	SSS-12(0'-2')MS	EPA 3050B	435206	EPA 6010D	435255
30405475012	SSS-12(0'-2')MSD	EPA 3050B	435206	EPA 6010D	435255
30405475014	SSB-12(2'-8')	EPA 3050B	434655	EPA 6010D	434707
30405475015	SSS-11(0'-2')	EPA 3050B	434655	EPA 6010D	434707
30405475016	SSB-11(2'-8')	EPA 3050B	434655	EPA 6010D	434707
30405475019	SSS-10 (0'-2')	EPA 3050B	435207	EPA 6010D	435256
30405475021	SSS-10 (0'-2')MS	EPA 3050B	435207	EPA 6010D	435256
30405475023	SSS-10 (0'-2')MSD	EPA 3050B	435207	EPA 6010D	435256
30405475026	SSB-10 (2'-8')	EPA 3050B	434655	EPA 6010D	434707
30405475027	SSS-9 (0-2)	EPA 3050B	434655	EPA 6010D	434707
30405475028	SSS-9 (0-2) Dup	EPA 3050B	434655	EPA 6010D	434707
30405475029	SSS-9 (2-8)	EPA 3050B	434655	EPA 6010D	434707
30405475008	SSS-12(0'-2')	EPA 3005A	435404	EPA 6010D	435435
30405475010	SSS-12(0'-2')MS	EPA 3005A	435404	EPA 6010D	435435
30405475012	SSS-12(0'-2')MSD	EPA 3005A	435404	EPA 6010D	435435
30405475019	SSS-10 (0'-2')	EPA 3005A	435404	EPA 6010D	435435
30405475021	SSS-10 (0'-2')MS	EPA 3005A	435404	EPA 6010D	435435
30405475023	SSS-10 (0'-2')MSD	EPA 3005A	435404	EPA 6010D	435435
30405475017	Equipment Blank 1	EPA 3005A	434644	EPA 6010D	434704
30405475018	Field Blank 1	EPA 3005A	434644	EPA 6010D	434704
30405475025	Equipment Blank 2	EPA 3005A	434644	EPA 6010D	434704
30405475030	Field Blank	EPA 3005A	434644	EPA 6010D	434704
30405475009	SSS-12(0'-2')(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475011	SSS-12(0'-2')MS(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475013	SSS-12(0'-2')MSD(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475017	Equipment Blank 1	EPA 3510C	434879	EPA 8270E By SIM	435053
30405475018	Field Blank 1	EPA 3510C	434879	EPA 8270E By SIM	435053
30405475020	SSS-10 (0'-2')(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475022	SSS-10 (0'-2')MS(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475024	SSS-10 (0'-2')MSD(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475025	Equipment Blank 2	EPA 3510C	434879	EPA 8270E By SIM	435053
30405475030	Field Blank	EPA 3510C	434879	EPA 8270E By SIM	435053
30405475001	SSS-15(0'-2')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475002	SSB-15(2'-8')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475003	SSS-14(0'-2')	EPA 3546	435561	EPA 8270E by SIM	435723

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405475004	SSB-14(2'-8')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475005	SSB-14(2'-8') Dup	EPA 3546	435561	EPA 8270E by SIM	435723
30405475006	SSS-13(0'-2')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475007	SSB-13(2'-8')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475008	SSS-12(0'-2')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475010	SSS-12(0'-2')MS	EPA 3546	435561	EPA 8270E by SIM	435723
30405475012	SSS-12(0'-2')MSD	EPA 3546	435561	EPA 8270E by SIM	435723
30405475014	SSB-12(2'-8')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475015	SSS-11(0'-2')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475016	SSB-11(2'-8')	EPA 3546	435561	EPA 8270E by SIM	435723
30405475019	SSS-10 (0'-2')	EPA 3546	435872	EPA 8270E by SIM	436065
30405475021	SSS-10 (0'-2')MS	EPA 3546	435872	EPA 8270E by SIM	436065
30405475023	SSS-10 (0'-2')MSD	EPA 3546	435872	EPA 8270E by SIM	436065
30405475026	SSB-10 (2'-8')	EPA 3546	435872	EPA 8270E by SIM	436065
30405475027	SSS-9 (0-2)	EPA 3546	435872	EPA 8270E by SIM	436065
30405475028	SSS-9 (0-2) Dup	EPA 3546	435872	EPA 8270E by SIM	436065
30405475029	SSS-9 (2-8)	EPA 3546	435872	EPA 8270E by SIM	436065
30405475001	SSS-15(0'-2')	EPA 5035A	434776	EPA 8260B	434788
30405475002	SSB-15(2'-8')	EPA 5035A	434776	EPA 8260B	434788
30405475003	SSS-14(0'-2')	EPA 5035A	434776	EPA 8260B	434788
30405475004	SSB-14(2'-8')	EPA 5035A	434776	EPA 8260B	434788
30405475005	SSB-14(2'-8') Dup	EPA 5035A	434776	EPA 8260B	434788
30405475006	SSS-13(0'-2')	EPA 5035A	434776	EPA 8260B	434788
30405475007	SSB-13(2'-8')	EPA 5035A	434776	EPA 8260B	434788
30405475008	SSS-12(0'-2')	EPA 5035A	434776	EPA 8260B	434788
30405475010	SSS-12(0'-2')MS	EPA 5035A	434776	EPA 8260B	434788
30405475012	SSS-12(0'-2')MSD	EPA 5035A	434776	EPA 8260B	434788
30405475014	SSB-12(2'-8')	EPA 5035A	434776	EPA 8260B	434788
30405475015	SSS-11(0'-2')	EPA 5035A	434776	EPA 8260B	434788
30405475016	SSB-11(2'-8')	EPA 5035A	434776	EPA 8260B	434788
30405475019	SSS-10 (0'-2')	EPA 5035A	434776	EPA 8260B	434788
30405475021	SSS-10 (0'-2')MS	EPA 5035A	434776	EPA 8260B	434788
30405475023	SSS-10 (0'-2')MSD	EPA 5035A	434776	EPA 8260B	434788
30405475026	SSB-10 (2'-8')	EPA 5035A	434776	EPA 8260B	434788
30405475027	SSS-9 (0-2)	EPA 5035A	434776	EPA 8260B	434788
30405475028	SSS-9 (0-2) Dup	EPA 5035A	434776	EPA 8260B	434788
30405475029	SSS-9 (2-8)	EPA 5035A	434776	EPA 8260B	434788
30405475008	SSS-12(0'-2')	EPA 8260B	435567		
30405475010	SSS-12(0'-2')MS	EPA 8260B	435567		
30405475012	SSS-12(0'-2')MSD	EPA 8260B	435567		
30405475019	SSS-10 (0'-2')	EPA 8260B	435567		
30405475021	SSS-10 (0'-2')MS	EPA 8260B	435567		
30405475023	SSS-10 (0'-2')MSD	EPA 8260B	435567		
30405475025	Equipment Blank 2	EPA 8260C	435850		
30405475030	Field Blank	EPA 8260C	435850		
30405475031	Trip Blank 1	EPA 8260C	435850		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405475001	SSS-15(0'-2')	ASTM D2974-87	434613		
30405475002	SSB-15(2'-8')	ASTM D2974-87	434613		
30405475003	SSS-14(0'-2')	ASTM D2974-87	434613		
30405475004	SSB-14(2'-8')	ASTM D2974-87	434613		
30405475005	SSB-14(2'-8') Dup	ASTM D2974-87	434613		
30405475006	SSS-13(0'-2')	ASTM D2974-87	434613		
30405475007	SSB-13(2'-8')	ASTM D2974-87	434613		
30405475008	SSS-12(0'-2')	ASTM D2974-87	434613		
30405475010	SSS-12(0'-2')MS	ASTM D2974-87	434613		
30405475012	SSS-12(0'-2')MSD	ASTM D2974-87	434613		
30405475014	SSB-12(2'-8')	ASTM D2974-87	434613		
30405475015	SSS-11(0'-2')	ASTM D2974-87	434613		
30405475016	SSB-11(2'-8')	ASTM D2974-87	434613		
30405475019	SSS-10 (0'-2')	ASTM D2974-87	434613		
30405475021	SSS-10 (0'-2')MS	ASTM D2974-87	434613		
30405475023	SSS-10 (0'-2')MSD	ASTM D2974-87	434613		
30405475026	SSB-10 (2'-8')	ASTM D2974-87	434613		
30405475027	SSS-9 (0-2)	ASTM D2974-87	434613		
30405475028	SSS-9 (0-2) Dup	ASTM D2974-87	434613		
30405475029	SSS-9 (2-8)	ASTM D2974-87	434613		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405879003	SSB-02(2'-8')	EPA 3050B	435207	EPA 6010D	435256
30405879004	SSS-03(0'-2')	EPA 3050B	435207	EPA 6010D	435256
30405879005	SSB-03(2'-8')	EPA 3050B	435207	EPA 6010D	435256
30405879006	SSB-03(2'-8')DUP	EPA 3050B	435207	EPA 6010D	435256
30405879007	SSS-04(0'-2')	EPA 3050B	435207	EPA 6010D	435256
30405879008	SSB-04(2'-8')	EPA 3050B	435207	EPA 6010D	435256
30405879015	SSB-05(2'-8')	EPA 3050B	435207	EPA 6010D	435256
30405879020	SSS-06 (0'-2')	EPA 3050B	435207	EPA 6010D	435256
30405879021	SSB-06 (2'-8')	EPA 3050B	435207	EPA 6010D	435256
30405879022	SSS-07 (0'-2')	EPA 3050B	435207	EPA 6010D	435256
30405879023	SSB-07 (2'-8')	EPA 3050B	435207	EPA 6010D	435256
30405879024	SSB-07 (2'-8')DUP	EPA 3050B	435207	EPA 6010D	435256
30405879031	SSB-08 (2'-8')	EPA 3050B	435207	EPA 6010D	435256
30405879001	SSS-02(0'-2')	EPA 3005A	435404	EPA 6010D	435435
30405879009	SSB-05(0'-2')	EPA 3005A	435404	EPA 6010D	435435
30405879011	SSB-05(0'-2')MS	EPA 3005A	435404	EPA 6010D	435435
30405879013	SSB-05(0'-2')MSD	EPA 3005A	435404	EPA 6010D	435435
30405879025	SSS-08 (0'-2')	EPA 3005A	435404	EPA 6010D	435435
30405879027	SSS-08 (0'-2')MS	EPA 3005A	435404	EPA 6010D	435435
30405879029	SSS-08 (0'-2')MSD	EPA 3005A	435404	EPA 6010D	435435
30405879016	Equipment Blank 3	EPA 3005A	435200	EPA 6010D	435251
30405879017	Field Blank 3	EPA 3005A	435200	EPA 6010D	435251
30405879032	Equipment Blank 4	EPA 3005A	435200	EPA 6010D	435251
30405879033	Field Blank 4	EPA 3005A	435200	EPA 6010D	435251
30405879002	SSS-02(0'-2')(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879010	SSB-05(0'-2')(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879012	SSB-05(0'-2')MS(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879014	SSB-05(0'-2')MSD(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879016	Equipment Blank 3	EPA 3510C	434879	EPA 8270E By SIM	435053
30405879017	Field Blank 3	EPA 3510C	434879	EPA 8270E By SIM	435053
30405879026	SSS-08 (0'-2')(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879028	SSS-08 (0'-2')MS(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879030	SSS-08 (0'-2')MSD(SPLP)	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879032	Equipment Blank 4	EPA 3510C	434879	EPA 8270E By SIM	435053
30405879033	Field Blank 4	EPA 3510C	434879	EPA 8270E By SIM	435053
30405879003	SSB-02(2'-8')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879004	SSS-03(0'-2')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879005	SSB-03(2'-8')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879006	SSB-03(2'-8')DUP	EPA 3546	436066	EPA 8270E by SIM	436247
30405879007	SSS-04(0'-2')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879008	SSB-04(2'-8')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879015	SSB-05(2'-8')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879020	SSS-06 (0'-2')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879021	SSB-06 (2'-8')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879022	SSS-07 (0'-2')	EPA 3546	436066	EPA 8270E by SIM	436247

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405879023	SSB-07 (2'-8')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879024	SSB-07 (2'-8')DUP	EPA 3546	436066	EPA 8270E by SIM	436247
30405879031	SSB-08 (2'-8')	EPA 3546	436066	EPA 8270E by SIM	436247
30405879003	SSB-02(2'-8')	EPA 5035A	435644	EPA 8260B	435654
30405879004	SSS-03(0'-2')	EPA 5035A	435644	EPA 8260B	435654
30405879005	SSB-03(2'-8')	EPA 5035A	435644	EPA 8260B	435654
30405879006	SSB-03(2'-8')DUP	EPA 5035A	435644	EPA 8260B	435654
30405879007	SSS-04(0'-2')	EPA 5035A	435644	EPA 8260B	435654
30405879008	SSB-04(2'-8')	EPA 5035A	435644	EPA 8260B	435654
30405879015	SSB-05(2'-8')	EPA 5035A	435644	EPA 8260B	435654
30405879020	SSS-06 (0'-2')	EPA 5035A	435644	EPA 8260B	435654
30405879021	SSB-06 (2'-8')	EPA 5035A	435644	EPA 8260B	435654
30405879022	SSS-07 (0'-2')	EPA 5035A	435644	EPA 8260B	435654
30405879023	SSB-07 (2'-8')	EPA 5035A	435644	EPA 8260B	435654
30405879024	SSB-07 (2'-8')DUP	EPA 5035A	435644	EPA 8260B	435654
30405879031	SSB-08 (2'-8')	EPA 5035A	435644	EPA 8260B	435654
30405879001	SSS-02(0'-2')	EPA 8260B	435567		
30405879009	SSB-05(0'-2')	EPA 8260B	435567		
30405879011	SSB-05(0'-2')MS	EPA 8260B	435567		
30405879013	SSB-05(0'-2')MSD	EPA 8260B	435567		
30405879025	SSS-08 (0'-2')	EPA 8260B	435567		
30405879027	SSS-08 (0'-2')MS	EPA 8260B	435567		
30405879029	SSS-08 (0'-2')MSD	EPA 8260B	435567		
30405879016	Equipment Blank 3	EPA 8260C	435982		
30405879017	Field Blank 3	EPA 8260C	435982		
30405879018	Trip Blank 2	EPA 8260C	435982		
30405879019	Trip Blank 3	EPA 8260C	435982		
30405879032	Equipment Blank 4	EPA 8260C	435982		
30405879033	Field Blank 4	EPA 8260C	435982		
30405879034	Trip Blank 4	EPA 8260C	436167		
30405879035	Trip Blank 5	EPA 8260C	436167		
30405879001	SSS-02(0'-2')	ASTM D2974-87	435155		
30405879003	SSB-02(2'-8')	ASTM D2974-87	435155		
30405879004	SSS-03(0'-2')	ASTM D2974-87	435155		
30405879005	SSB-03(2'-8')	ASTM D2974-87	435155		
30405879006	SSB-03(2'-8')DUP	ASTM D2974-87	435155		
30405879007	SSS-04(0'-2')	ASTM D2974-87	435155		
30405879008	SSB-04(2'-8')	ASTM D2974-87	435155		
30405879009	SSB-05(0'-2')	ASTM D2974-87	435155		
30405879011	SSB-05(0'-2')MS	ASTM D2974-87	435155		
30405879013	SSB-05(0'-2')MSD	ASTM D2974-87	435155		
30405879015	SSB-05(2'-8')	ASTM D2974-87	435155		
30405879020	SSS-06 (0'-2')	ASTM D2974-87	435155		
30405879021	SSB-06 (2'-8')	ASTM D2974-87	435155		
30405879022	SSS-07 (0'-2')	ASTM D2974-87	435155		
30405879023	SSB-07 (2'-8')	ASTM D2974-87	435155		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405879024	SSB-07 (2'-8')DUP	ASTM D2974-87	435155		
30405879025	SSS-08 (0'-2')	ASTM D2974-87	435155		
30405879027	SSS-08 (0'-2')MS	ASTM D2974-87	435155		
30405879029	SSS-08 (0'-2')MSD	ASTM D2974-87	435155		
30405879031	SSB-08 (2'-8')	ASTM D2974-87	435155		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405885001	SSS-01 (0'-2')	EPA 3050B	435208	EPA 6010D	435257
30405885002	SSS-01 (0'-2') MS	EPA 3050B	435208	EPA 6010D	435257
30405885003	SSS-01 (0'-2') MSD	EPA 3050B	435208	EPA 6010D	435257
30405885004	SSB-01 (2'-8')	EPA 3050B	435208	EPA 6010D	435257
30405885005	SSB-01 (2'-8') Dup	EPA 3050B	435208	EPA 6010D	435257
30405885006	Field Blank 5	EPA 3005A	435200	EPA 6010D	435251
30405885007	Equipment Blank 5	EPA 3005A	435200	EPA 6010D	435251
30405885006	Field Blank 5	EPA 3510C	434879	EPA 8270E By SIM	435053
30405885007	Equipment Blank 5	EPA 3510C	434879	EPA 8270E By SIM	435053
30405885001	SSS-01 (0'-2')	EPA 3546	436193	EPA 8270E by SIM	436410
30405885002	SSS-01 (0'-2') MS	EPA 3546	436193	EPA 8270E by SIM	436410
30405885003	SSS-01 (0'-2') MSD	EPA 3546	436193	EPA 8270E by SIM	436410
30405885004	SSB-01 (2'-8')	EPA 3546	436193	EPA 8270E by SIM	436410
30405885005	SSB-01 (2'-8') Dup	EPA 3546	436193	EPA 8270E by SIM	436410
30405885001	SSS-01 (0'-2')	EPA 5035A	435321	EPA 8260B	435327
30405885002	SSS-01 (0'-2') MS	EPA 5035A	435321	EPA 8260B	435327
30405885003	SSS-01 (0'-2') MSD	EPA 5035A	435321	EPA 8260B	435327
30405885004	SSB-01 (2'-8')	EPA 5035A	435321	EPA 8260B	435327
30405885005	SSB-01 (2'-8') Dup	EPA 5035A	435321	EPA 8260B	435327
30405885006	Field Blank 5	EPA 8260C	436175		
30405885007	Equipment Blank 5	EPA 8260C	436175		
30405885008	Trip Blank	EPA 8260C	436175		
30405885001	SSS-01 (0'-2')	ASTM D2974-87	435161		
30405885002	SSS-01 (0'-2') MS	ASTM D2974-87	435161		
30405885003	SSS-01 (0'-2') MSD	ASTM D2974-87	435161		
30405885004	SSB-01 (2'-8')	ASTM D2974-87	435161		
30405885005	SSB-01 (2'-8') Dup	ASTM D2974-87	435161		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30411349001	SED-1-U (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349002	SED-1-D (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349004	SED-2-U (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349005	SED-2-D (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349007	SED-2-D (0-0.5) MS	EPA 3050B	440901	EPA 6010D	440949
30411349008	SED-2-D (0-0.5) MSD	EPA 3050B	440901	EPA 6010D	440949
30411349009	SED-2-D (0-0.5) Dup	EPA 3050B	440901	EPA 6010D	440949
30411349010	SED-3-U (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349011	SED-3-D (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349013	SED-4-U (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349015	SED-5-U (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349016	SED-5-D (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349018	SED-6-U (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349020	SED-7-U (0-0.5)	EPA 3050B	440901	EPA 6010D	440949
30411349003	SPLP-1 (0-0.5)	EPA 3005A	440669	EPA 6010D	440718
30411349006	SPLP-2 (0-0.5)	EPA 3005A	440669	EPA 6010D	440718
30411349012	SPLP-3 (0-0.5)	EPA 3005A	440669	EPA 6010D	440718
30411349014	SPLP-4 (0-0.5)	EPA 3005A	440669	EPA 6010D	440718
30411349017	SPLP-5- (0-0.5)	EPA 3005A	440669	EPA 6010D	440718
30411349019	SPLP-6 (0-0.5)	EPA 3005A	440669	EPA 6010D	440718
30411349021	SPLP-7 (0-0.5)	EPA 3005A	440834	EPA 6010D	440936
30411349022	Field Blank 1	EPA 3005A	440070	EPA 6010D	440125
30411349023	Equipment Blank 1	EPA 3005A	440070	EPA 6010D	440125
30411349024	Field Blank 2	EPA 3005A	440070	EPA 6010D	440125
30411349025	Equipment Blank 2	EPA 3005A	440070	EPA 6010D	440125
30411349022	Field Blank 1	EPA 3510C	439827	EPA 8270E By SIM	440081
30411349023	Equipment Blank 1	EPA 3510C	439827	EPA 8270E By SIM	440081
30411349024	Field Blank 2	EPA 3510C	439827	EPA 8270E By SIM	440081
30411349025	Equipment Blank 2	EPA 3510C	439827	EPA 8270E By SIM	440081
30411349029	SPLP-1(0-0.5) Leachate	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349030	SPLP-2(0-0.5) Leachate	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349031	SPLP-3(0-0.5) Leachate	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349032	SPLP-4(0-0.5) Leachate	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349033	SPLP-5(0-0.5) Leachate	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349034	SPLP-6(0-0.5) Leachate	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349035	SPLP-7(0-0.5) Leachate	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349001	SED-1-U (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349002	SED-1-D (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349004	SED-2-U (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349005	SED-2-D (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349007	SED-2-D (0-0.5) MS	EPA 3546	439851	EPA 8270E by SIM	440074
30411349008	SED-2-D (0-0.5) MSD	EPA 3546	439851	EPA 8270E by SIM	440074
30411349009	SED-2-D (0-0.5) Dup	EPA 3546	439851	EPA 8270E by SIM	440074
30411349010	SED-3-U (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349011	SED-3-D (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349013	SED-4-U (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30411349015	SED-5-U (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349016	SED-5-D (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349018	SED-6-U (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349020	SED-7-U (0-0.5)	EPA 3546	439851	EPA 8270E by SIM	440074
30411349001	SED-1-U (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349002	SED-1-D (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349004	SED-2-U (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349005	SED-2-D (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349007	SED-2-D (0-0.5) MS	EPA 5035A	440200	EPA 8260C	440207
30411349008	SED-2-D (0-0.5) MSD	EPA 5035A	440200	EPA 8260C	440207
30411349009	SED-2-D (0-0.5) Dup	EPA 5035A	440200	EPA 8260C	440207
30411349010	SED-3-U (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349011	SED-3-D (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349013	SED-4-U (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349015	SED-5-U (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349016	SED-5-D (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349018	SED-6-U (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349020	SED-7-U (0-0.5)	EPA 5035A	440200	EPA 8260C	440207
30411349003	SPLP-1 (0-0.5)	EPA 8260C	440611		
30411349006	SPLP-2 (0-0.5)	EPA 8260C	440611		
30411349012	SPLP-3 (0-0.5)	EPA 8260C	440611		
30411349014	SPLP-4 (0-0.5)	EPA 8260C	440611		
30411349017	SPLP-5- (0-0.5)	EPA 8260C	440611		
30411349019	SPLP-6 (0-0.5)	EPA 8260C	440611		
30411349021	SPLP-7 (0-0.5)	EPA 8260C	440611		
30411349022	Field Blank 1	EPA 8260C	440755		
30411349023	Equipment Blank 1	EPA 8260C	440755		
30411349024	Field Blank 2	EPA 8260C	440755		
30411349025	Equipment Blank 2	EPA 8260C	440755		
30411349026	Trip Blank 1	EPA 8260C	440755		
30411349027	Trip Blank 2	EPA 8260C	440755		
30411349028	Trip Blank 3	EPA 8260C	440755		
30411349001	SED-1-U (0-0.5)	ASTM D2974-87	439721		
30411349002	SED-1-D (0-0.5)	ASTM D2974-87	439721		
30411349003	SPLP-1 (0-0.5)	ASTM D2974-87	439721		
30411349004	SED-2-U (0-0.5)	ASTM D2974-87	439721		
30411349005	SED-2-D (0-0.5)	ASTM D2974-87	439721		
30411349006	SPLP-2 (0-0.5)	ASTM D2974-87	439721		
30411349007	SED-2-D (0-0.5) MS	ASTM D2974-87	439721		
30411349008	SED-2-D (0-0.5) MSD	ASTM D2974-87	439721		
30411349009	SED-2-D (0-0.5) Dup	ASTM D2974-87	439721		
30411349010	SED-3-U (0-0.5)	ASTM D2974-87	439721		
30411349011	SED-3-D (0-0.5)	ASTM D2974-87	439721		
30411349012	SPLP-3 (0-0.5)	ASTM D2974-87	439721		
30411349013	SED-4-U (0-0.5)	ASTM D2974-87	439721		
30411349014	SPLP-4 (0-0.5)	ASTM D2974-87	439721		
30411349015	SED-5-U (0-0.5)	ASTM D2974-87	439721		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30411349016	SED-5-D (0-0.5)	ASTM D2974-87	439721		
30411349017	SPLP-5- (0-0.5)	ASTM D2974-87	439721		
30411349018	SED-6-U (0-0.5)	ASTM D2974-87	439721		
30411349019	SPLP-6 (0-0.5)	ASTM D2974-87	439721		
30411349020	SED-7-U (0-0.5)	ASTM D2974-87	439721		
30411349021	SPLP-7 (0-0.5)	ASTM D2974-87	439722		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434655 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B | Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475014, 30405475015, 30405475016, 30405475026, 30405475027, 30405475028, 30405475029

METHOD BLANK: 2098669 Matrix: Solid
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475014, 30405475015, 30405475016, 30405475026, 30405475027, 30405475028, 30405475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	02/12/21 08:47	
Lead	mg/kg	ND	1.0	02/12/21 08:47	

LABORATORY CONTROL SAMPLE: 2098670

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.5	101	80-120	
Lead	mg/kg	50	49.1	98	80-120	

MATRIX SPIKE SAMPLE: 2098672

Parameter	Units	30405475001 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	10.2	51.1	81.2	139	75-125	MH
Lead	mg/kg	23.4	51.1	60.0	72	75-125	ML

SAMPLE DUPLICATE: 2098671

Parameter	Units	30405475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	10.2	8.4	19	20	
Lead	mg/kg	23.4	13.2	56	20	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435206
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475008, 30405475010, 30405475012

METHOD BLANK: 2101111 Matrix: Solid
Associated Lab Samples: 30405475008, 30405475010, 30405475012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	02/17/21 10:34	
Lead	mg/kg	ND	1.0	02/17/21 10:34	

LABORATORY CONTROL SAMPLE: 2101112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.1	98	80-120	
Lead	mg/kg	50	47.6	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101114 2101115

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	8.4	52.7	52.7	53.4	50.7	85	80	75-125	5	20	
Lead	mg/kg	9.4	52.7	52.7	59.5	60.0	95	96	75-125	1	20	

SAMPLE DUPLICATE: 2101113

Parameter	Units	30405475008 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	8.4	4.4	62	20	D6
Lead	mg/kg	9.4	10.1	7	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435207
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475019, 30405475021, 30405475023

METHOD BLANK: 2101117 Matrix: Solid
Associated Lab Samples: 30405475019, 30405475021, 30405475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	02/17/21 11:26	
Lead	mg/kg	ND	1.0	02/17/21 11:26	

LABORATORY CONTROL SAMPLE: 2101118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49	48.2	98	80-120	
Lead	mg/kg	49	47.1	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101120 2101121

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	6.3	55.6	55.6	56.6	56.8	91	91	75-125	0	20	
Lead	mg/kg	12.5	55.6	55.6	68.6	67.0	101	98	75-125	2	20	

SAMPLE DUPLICATE: 2101119

Parameter	Units	30405475019 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	6.3	8.3	27	20	D6
Lead	mg/kg	12.5	15.0	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435404 Analysis Method: EPA 6010D
QC Batch Method: EPA 3005A Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

METHOD BLANK: 2101937 Matrix: Water
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	02/19/21 10:00	
Lead	mg/L	ND	0.025	02/19/21 10:00	

METHOD BLANK: 2100601 Matrix: Water
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	02/19/21 10:59	
Lead	mg/L	ND	0.025	02/19/21 10:59	

LABORATORY CONTROL SAMPLE: 2101938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.53	106	80-120	
Lead	mg/L	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101940 2101941

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.52	0.53	102	104	75-125	2	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.51	100	101	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101943 2101944

Parameter	Units	30405475019 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.52	103	103	75-125	1	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.50	100	99	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101946 2101947

Parameter	Units	30405879009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.52	101	105	75-125	3	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.51	99	102	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101949 2101950

Parameter	Units	30405879025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.52	0.51	104	102	75-125	2	20	
Lead	mg/L	ND	0.5	0.5	0.51	0.49	101	99	75-125	3	20	

SAMPLE DUPLICATE: 2101939

Parameter	Units	30405475008 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	.0057J		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101942

Parameter	Units	30405475019 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101945

Parameter	Units	30405879009 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101948

Parameter	Units	30405879025 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434644
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475017, 30405475018, 30405475025, 30405475030

METHOD BLANK: 2098630 Matrix: Water
Associated Lab Samples: 30405475017, 30405475018, 30405475025, 30405475030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	02/12/21 07:06	
Lead	ug/L	ND	10.0	02/12/21 07:06	
Total Hardness by SM2340B-2011	ug/L	-22		02/12/21 07:06	

LABORATORY CONTROL SAMPLE: 2098631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	525	105	80-120	
Lead	ug/L	500	504	101	80-120	
Total Hardness by SM2340B-2011	ug/L		35500			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2098633 2098634

Parameter	Units	30404557001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	526	521	105	104	75-125	1	20	
Lead	ug/L	ND	500	500	506	498	101	99	75-125	2	20	
Total Hardness by SM2340B-2011	ug/L	308000			326000	333000				2		

MATRIX SPIKE SAMPLE: 2098636

Parameter	Units	30404617001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	546	109	75-125	
Lead	ug/L	ND	500	512	102	75-125	
Total Hardness by SM2340B-2011	ug/L	129000		162000			

SAMPLE DUPLICATE: 2098632

Parameter	Units	30404557001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	308000	299000	3		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

SAMPLE DUPLICATE: 2098635

Parameter	Units	30404617001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	129000	127000	2		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434776
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016, 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

METHOD BLANK: 2099309 Matrix: Solid
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016, 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/kg	ND	5.0	02/12/21 12:33	
1,2-Dichloroethane-d4 (S)	%.	106	70-130	02/12/21 12:33	
4-Bromofluorobenzene (S)	%.	98	70-130	02/12/21 12:33	
Dibromofluoromethane (S)	%.	101	70-130	02/12/21 12:33	
Toluene-d8 (S)	%.	100	70-130	02/12/21 12:33	

LABORATORY CONTROL SAMPLE: 2099310

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	20	15.4	77	65-110	
1,2-Dichloroethane-d4 (S)	%.			104	70-130	
4-Bromofluorobenzene (S)	%.			97	70-130	
Dibromofluoromethane (S)	%.			97	70-130	
Toluene-d8 (S)	%.			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2099311 2099312

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/kg	ND	18.3	17.3	19.1	10.2	104	59	10-154	61	30	R1
1,2-Dichloroethane-d4 (S)	%.						107	111	70-130			
4-Bromofluorobenzene (S)	%.						98	98	70-130			
Dibromofluoromethane (S)	%.						99	100	70-130			
Toluene-d8 (S)	%.						101	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2099313 2099314

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/kg	ND	19.4	19.4	7.0	6.9	36	35	10-154	1	30	
1,2-Dichloroethane-d4 (S)	%.						111	111	70-130			
4-Bromofluorobenzene (S)	%.						99	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2099313 2099314

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%.						104	102	70-130			
Toluene-d8 (S)	%.						100	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435567
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

METHOD BLANK: 2101414 Matrix: Solid
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	50.0	02/19/21 10:56	
1,2-Dichloroethane-d4 (S)	%.	92	70-130	02/19/21 10:56	
4-Bromofluorobenzene (S)	%.	101	70-130	02/19/21 10:56	
Dibromofluoromethane (S)	%.	99	70-130	02/19/21 10:56	
Toluene-d8 (S)	%.	98	70-130	02/19/21 10:56	

LABORATORY CONTROL SAMPLE: 2102704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	14.7	74	65-110	
1,2-Dichloroethane-d4 (S)	%.			96	70-130	
4-Bromofluorobenzene (S)	%.			92	70-130	
Dibromofluoromethane (S)	%.			106	70-130	
Toluene-d8 (S)	%.			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102701 2102702

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	140	167	70	83	10-154	17	30	
1,2-Dichloroethane-d4 (S)	%.						93	93	70-130			
4-Bromofluorobenzene (S)	%.						100	97	70-130			
Dibromofluoromethane (S)	%.						96	100	70-130			
Toluene-d8 (S)	%.						98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102703 2102724

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	139	150	65	71	10-154	8	30	
1,2-Dichloroethane-d4 (S)	%.						92	96	70-130			
4-Bromofluorobenzene (S)	%.						97	97	70-130			
Dibromofluoromethane (S)	%.						105	103	70-130			
Toluene-d8 (S)	%.						98	102	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102705 2102725

Parameter	Units	30405879009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	129	155	64	78	10-154	19	30	
1,2-Dichloroethane-d4 (S)	%						93	94	70-130			
4-Bromofluorobenzene (S)	%						98	96	70-130			
Dibromofluoromethane (S)	%						97	103	70-130			
Toluene-d8 (S)	%						100	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102706 2102726

Parameter	Units	30405879025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	147	154	70	73	10-154	5	30	
1,2-Dichloroethane-d4 (S)	%						96	95	70-130			
4-Bromofluorobenzene (S)	%						101	96	70-130			
Dibromofluoromethane (S)	%						109	98	70-130			
Toluene-d8 (S)	%						100	112	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435850
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475025, 30405475030, 30405475031

METHOD BLANK: 2103938 Matrix: Water
Associated Lab Samples: 30405475025, 30405475030, 30405475031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	02/22/21 12:39	
1,2-Dichloroethane-d4 (S)	%.	111	70-130	02/22/21 12:39	
4-Bromofluorobenzene (S)	%.	101	70-130	02/22/21 12:39	
Dibromofluoromethane (S)	%.	103	70-130	02/22/21 12:39	
Toluene-d8 (S)	%.	95	70-130	02/22/21 12:39	

LABORATORY CONTROL SAMPLE 2103939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	22.8	114	55-160	
1,2-Dichloroethane-d4 (S)	%.			115	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			104	70-130	
Toluene-d8 (S)	%.			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103940 2103941

Parameter	Units	7360153001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	17.8	17.2	89	86	30-157	3	30	
1,2-Dichloroethane-d4 (S)	%						114	106	70-130			
4-Bromofluorobenzene (S)	%						100	97	70-130			
Dibromofluoromethane (S)	%						102	103	70-130			
Toluene-d8 (S)	%						96	98	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434879
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475017, 30405475018, 30405475025, 30405475030

METHOD BLANK: 2100052 Matrix: Water
Associated Lab Samples: 30405475017, 30405475018, 30405475025, 30405475030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	02/16/21 13:59	
Acenaphthylene	ug/L	ND	0.10	02/16/21 13:59	
Anthracene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(a)anthracene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(a)pyrene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(b)fluoranthene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(g,h,i)perylene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(k)fluoranthene	ug/L	ND	0.10	02/16/21 13:59	
Chrysene	ug/L	ND	0.10	02/16/21 13:59	
Dibenz(a,h)anthracene	ug/L	ND	0.10	02/16/21 13:59	
Fluoranthene	ug/L	ND	0.10	02/16/21 13:59	
Fluorene	ug/L	ND	0.10	02/16/21 13:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	02/16/21 13:59	
Naphthalene	ug/L	ND	0.10	02/16/21 13:59	
Phenanthrene	ug/L	ND	0.10	02/16/21 13:59	
Pyrene	ug/L	ND	0.10	02/16/21 13:59	
2-Fluorobiphenyl (S)	%.	48	19-92	02/16/21 13:59	
Terphenyl-d14 (S)	%.	64	55-109	02/16/21 13:59	

LABORATORY CONTROL SAMPLE 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.2	58	29-110	
Acenaphthylene	ug/L	2	1.1	55	28-121	
Anthracene	ug/L	2	1.2	59	40-115	
Benzo(a)anthracene	ug/L	2	1.5	76	63-119	
Benzo(a)pyrene	ug/L	2	1.6	79	56-121	
Benzo(b)fluoranthene	ug/L	2	1.8	88	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.6	81	53-123	
Benzo(k)fluoranthene	ug/L	2	1.5	76	57-121	
Chrysene	ug/L	2	1.5	76	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.7	86	55-125	
Fluoranthene	ug/L	2	1.4	72	55-121	
Fluorene	ug/L	2	1.2	58	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	84	56-124	
Naphthalene	ug/L	2	1.1	57	26-104	
Phenanthrene	ug/L	2	1.2	61	38-112	
Pyrene	ug/L	2	1.4	72	56-119	
2-Fluorobiphenyl (S)	%.			54	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

LABORATORY CONTROL SAMPLE 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			78	55-109	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435762
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475009, 30405475011, 30405475013, 30405475020, 30405475022, 30405475024

METHOD BLANK: 2103681 Matrix: Water
Associated Lab Samples: 30405475009, 30405475011, 30405475013, 30405475020, 30405475022, 30405475024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	02/22/21 14:38	
Acenaphthylene	ug/L	ND	0.10	02/22/21 14:38	
Anthracene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(a)anthracene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(a)pyrene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(b)fluoranthene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(g,h,i)perylene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(k)fluoranthene	ug/L	ND	0.10	02/22/21 14:38	
Chrysene	ug/L	ND	0.10	02/22/21 14:38	
Dibenz(a,h)anthracene	ug/L	ND	0.10	02/22/21 14:38	
Fluoranthene	ug/L	ND	0.10	02/22/21 14:38	
Fluorene	ug/L	ND	0.10	02/22/21 14:38	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	02/22/21 14:38	
Naphthalene	ug/L	ND	0.10	02/22/21 14:38	
Phenanthrene	ug/L	ND	0.10	02/22/21 14:38	
Pyrene	ug/L	ND	0.10	02/22/21 14:38	
2-Fluorobiphenyl (S)	%.	43	19-92	02/22/21 14:38	
Terphenyl-d14 (S)	%.	58	55-109	02/22/21 14:38	

LABORATORY CONTROL SAMPLE: 2103682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.1	53	29-110	
Acenaphthylene	ug/L	2	1.0	50	28-121	
Anthracene	ug/L	2	0.97	49	40-115	
Benzo(a)anthracene	ug/L	2	1.2	62	63-119	L2
Benzo(a)pyrene	ug/L	2	0.97	48	56-121	L2
Benzo(b)fluoranthene	ug/L	2	1.5	74	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.3	66	53-123	
Benzo(k)fluoranthene	ug/L	2	1.3	63	57-121	
Chrysene	ug/L	2	1.3	67	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.4	71	55-125	
Fluoranthene	ug/L	2	1.2	58	55-121	
Fluorene	ug/L	2	1.1	54	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	69	56-124	
Naphthalene	ug/L	2	1.1	55	26-104	
Phenanthrene	ug/L	2	1.1	55	38-112	
Pyrene	ug/L	2	1.2	58	56-119	
2-Fluorobiphenyl (S)	%.			47	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

LABORATORY CONTROL SAMPLE: 2103682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			63	55-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103683 2103684

Parameter	Units	30405475009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	0.10	2	2	1.1	1.3	50	60	10-125	17	20	
Acenaphthylene	ug/L	ND	2	2	1.1	1.3	53	63	21-116	17	20	
Anthracene	ug/L	ND	2	2	1.1	1.3	53	67	26-114	22	20	R1
Benzo(a)anthracene	ug/L	ND	2	2	1.4	1.6	67	78	39-123	15	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.3	1.5	65	76	24-126	16	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	1.4	63	72	24-135	13	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.1	1.3	55	65	10-132	18	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.2	1.4	60	71	25-123	18	20	
Chrysene	ug/L	ND	2	2	1.2	1.4	60	70	38-113	16	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.2	1.4	59	71	13-122	17	20	
Fluoranthene	ug/L	ND	2	2	1.2	1.5	59	75	32-123	23	20	R1
Fluorene	ug/L	ND	2	2	1.1	1.3	51	63	10-134	20	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.2	1.4	60	70	10-132	17	20	
Naphthalene	ug/L	0.22	2	2	1.1	1.3	46	56	17-98	16	20	
Phenanthrene	ug/L	0.14	2	2	1.1	1.4	50	65	26-116	22	20	R1
Pyrene	ug/L	ND	2	2	1.2	1.5	59	75	31-125	23	20	R1
2-Fluorobiphenyl (S)	%.						44	52	19-92		20	
Terphenyl-d14 (S)	%.						61	74	55-109		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103685 2103686

Parameter	Units	30405475020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	0.96	1.1	48	56	10-125	16	20	
Acenaphthylene	ug/L	ND	2	2	0.94	1.1	47	54	21-116	15	20	
Anthracene	ug/L	ND	2	2	0.92	1.1	46	55	26-114	18	20	
Benzo(a)anthracene	ug/L	ND	2	2	1.1	1.2	57	61	39-123	7	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.1	1.2	53	58	24-126	8	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.1	1.3	54	65	24-135	18	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	0.95	1.1	47	53	10-132	11	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.1	1.1	54	56	25-123	4	20	
Chrysene	ug/L	ND	2	2	1.1	1.2	54	59	38-113	9	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	0.99	1.1	49	55	13-122	11	20	
Fluoranthene	ug/L	ND	2	2	1.0	1.2	52	60	32-123	14	20	
Fluorene	ug/L	ND	2	2	0.96	1.1	48	57	10-134	18	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.0	1.1	50	56	10-132	10	20	
Naphthalene	ug/L	ND	2	2	0.94	1.1	46	56	17-98	19	20	
Phenanthrene	ug/L	ND	2	2	0.95	1.1	47	56	26-116	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103685 2103686

Parameter	Units	30405475020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Pyrene	ug/L	ND	2	2	1.0	1.2	52	59	31-125	13	20	
2-Fluorobiphenyl (S)	%						42	49	19-92		20	
Terphenyl-d14 (S)	%						51	57	55-109		20	SR

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103687 2103688

Parameter	Units	30405879010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	1.0	1.2	51	59	10-125	14	20	
Acenaphthylene	ug/L	ND	2	2	0.99	1.1	49	56	21-116	14	20	
Anthracene	ug/L	ND	2	2	1.1	1.1	52	57	26-114	8	20	
Benzo(a)anthracene	ug/L	ND	2	2	1.4	1.3	68	65	39-123	5	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.2	1.2	61	60	24-126	3	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	1.2	64	62	24-135	4	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.1	1.1	54	54	10-132	0	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.3	1.2	65	61	25-123	6	20	
Chrysene	ug/L	ND	2	2	1.4	1.3	70	66	38-113	6	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.2	1.1	61	56	13-122	9	20	
Fluoranthene	ug/L	ND	2	2	1.3	1.2	65	62	32-123	4	20	
Fluorene	ug/L	ND	2	2	1.0	1.2	52	59	10-134	13	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.2	1.2	59	57	10-132	3	20	
Naphthalene	ug/L	ND	2	2	1.0	1.2	51	58	17-98	14	20	
Phenanthrene	ug/L	ND	2	2	1.1	1.2	54	59	26-116	9	20	
Pyrene	ug/L	ND	2	2	1.3	1.3	66	62	31-125	6	20	
2-Fluorobiphenyl (S)	%						46	52	19-92		20	
Terphenyl-d14 (S)	%						68	63	55-109		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103689 2103690

Parameter	Units	30405879026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	0.75	1.2	38	59	10-125	44	20	R1
Acenaphthylene	ug/L	ND	2	2	0.75	1.2	37	59	21-116	46	20	R1
Anthracene	ug/L	ND	2	2	0.80	1.2	40	59	26-114	39	20	R1
Benzo(a)anthracene	ug/L	ND	2	2	1.2	1.4	58	69	39-123	17	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.1	1.3	57	67	24-126	15	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.2	1.4	60	70	24-135	16	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.0	1.2	52	60	10-132	15	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.1	1.4	57	68	25-123	18	20	
Chrysene	ug/L	ND	2	2	1.1	1.4	56	69	38-113	20	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.1	1.3	55	63	13-122	15	20	
Fluoranthene	ug/L	ND	2	2	1.0	1.3	51	65	32-123	24	20	R1
Fluorene	ug/L	ND	2	2	0.78	1.2	39	60	10-134	43	20	R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103689 2103690

Parameter	Units	30405879026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.1	1.3	56	64	10-132	14	20	
Naphthalene	ug/L	ND	2	2	0.75	1.2	36	58	17-98	44	20	R1
Phenanthrene	ug/L	ND	2	2	0.82	1.2	40	59	26-116	37	20	R1
Pyrene	ug/L	ND	2	2	1.0	1.3	52	67	31-125	25	20	R1
2-Fluorobiphenyl (S)	%.						32	52	19-92		20	
Terphenyl-d14 (S)	%.						54	66	55-109		20	SR

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435561
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016

METHOD BLANK: 2102676 Matrix: Solid
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.6	02/22/21 11:12	
Acenaphthylene	ug/kg	ND	6.6	02/22/21 11:12	
Anthracene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(a)anthracene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(a)pyrene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(b)fluoranthene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(g,h,i)perylene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(k)fluoranthene	ug/kg	ND	6.6	02/22/21 11:12	
Chrysene	ug/kg	ND	6.6	02/22/21 11:12	
Dibenz(a,h)anthracene	ug/kg	ND	6.6	02/22/21 11:12	
Fluoranthene	ug/kg	ND	6.6	02/22/21 11:12	
Fluorene	ug/kg	ND	6.6	02/22/21 11:12	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.6	02/22/21 11:12	
Naphthalene	ug/kg	ND	6.6	02/22/21 11:12	
Phenanthrene	ug/kg	ND	6.6	02/22/21 11:12	
Pyrene	ug/kg	ND	6.6	02/22/21 11:12	
2-Fluorobiphenyl (S)	%.	80	37-88	02/22/21 11:12	2c
Terphenyl-d14 (S)	%.	92	10-128	02/22/21 11:12	

LABORATORY CONTROL SAMPLE 2102677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	132	104	79	47-104	
Acenaphthylene	ug/kg	132	111	84	49-115	
Anthracene	ug/kg	132	115	87	52-115	
Benzo(a)anthracene	ug/kg	132	129	98	54-130	
Benzo(a)pyrene	ug/kg	132	137	104	59-126	
Benzo(b)fluoranthene	ug/kg	132	153	116	55-133	
Benzo(g,h,i)perylene	ug/kg	132	120	91	54-127	
Benzo(k)fluoranthene	ug/kg	132	112	85	56-120	
Chrysene	ug/kg	132	114	86	56-115	
Dibenz(a,h)anthracene	ug/kg	132	125	95	55-129	
Fluoranthene	ug/kg	132	125	95	56-125	
Fluorene	ug/kg	132	112	85	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	132	122	93	55-129	
Naphthalene	ug/kg	132	99.8	76	45-102	
Phenanthrene	ug/kg	132	114	87	50-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

LABORATORY CONTROL SAMPLE: 2102677

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	132	123	93	56-122	
2-Fluorobiphenyl (S)	%			83	37-88	2c
Terphenyl-d14 (S)	%			103	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102678 2102679

Parameter	Units	30405475008 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	46.7	156	156	151	2860	67	1810	24-109	181	20	E,MH,R1
Acenaphthylene	ug/kg	ND	156	156	170	172	109	111	26-119	1	20	
Anthracene	ug/kg	11.4	156	156	157	1240	94	787	32-115	155	20	MH,R1
Benzo(a)anthracene	ug/kg	12.4	156	156	164	1490	98	947	30-133	160	20	MH,R1
Benzo(a)pyrene	ug/kg	ND	156	156	166	661	104	421	11-151	120	20	MH,R1
Benzo(b)fluoranthene	ug/kg	8.8	156	156	182	948	111	602	25-140	136	20	MH,R1
Benzo(g,h,i)perylene	ug/kg	ND	156	156	100	166	64	105	10-126	49	20	R1
Benzo(k)fluoranthene	ug/kg	ND	156	156	154	483	98	308	25-127	103	20	MH,R1
Chrysene	ug/kg	ND	156	156	139	862	84	548	10-142	145	20	MH,R1
Dibenz(a,h)anthracene	ug/kg	ND	156	156	120	144	77	92	13-127	19	20	
Fluoranthene	ug/kg	73.6	156	156	169	4090	61	2580	20-139	184	20	E,MH,R1
Fluorene	ug/kg	39.7	156	156	163	2830	79	1790	28-114	178	20	E,MH,R1
Indeno(1,2,3-cd)pyrene	ug/kg	ND	156	156	116	184	73	117	15-123	45	20	R1
Naphthalene	ug/kg	34.8	156	156	140	1300	68	809	15-104	161	20	MH,R1
Phenanthrene	ug/kg	142	156	156	171	4940	19	3080	10-135	187	20	E,MH,R1
Pyrene	ug/kg	49.9	156	156	159	3590	70	2270	13-139	183	20	E,MH,R1
2-Fluorobiphenyl (S)	%						95	93	37-88			2c,ST
Terphenyl-d14 (S)	%						103	93	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435872
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

METHOD BLANK: 2103991 Matrix: Solid
Associated Lab Samples: 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.6	02/24/21 16:09	
Acenaphthylene	ug/kg	ND	6.6	02/24/21 16:09	
Anthracene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(a)anthracene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(a)pyrene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(b)fluoranthene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(g,h,i)perylene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(k)fluoranthene	ug/kg	ND	6.6	02/24/21 16:09	
Chrysene	ug/kg	ND	6.6	02/24/21 16:09	
Dibenz(a,h)anthracene	ug/kg	ND	6.6	02/24/21 16:09	
Fluoranthene	ug/kg	ND	6.6	02/24/21 16:09	
Fluorene	ug/kg	ND	6.6	02/24/21 16:09	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.6	02/24/21 16:09	
Naphthalene	ug/kg	7.6	6.6	02/24/21 16:09	B
Phenanthrene	ug/kg	ND	6.6	02/24/21 16:09	
Pyrene	ug/kg	ND	6.6	02/24/21 16:09	
2-Fluorobiphenyl (S)	%.	87	37-88	02/24/21 16:09	
Terphenyl-d14 (S)	%.	84	10-128	02/24/21 16:09	

LABORATORY CONTROL SAMPLE: 2103992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	130	111	85	47-104	
Acenaphthylene	ug/kg	130	110	85	49-115	
Anthracene	ug/kg	130	117	90	52-115	
Benzo(a)anthracene	ug/kg	130	124	95	54-130	
Benzo(a)pyrene	ug/kg	130	127	98	59-126	
Benzo(b)fluoranthene	ug/kg	130	128	98	55-133	
Benzo(g,h,i)perylene	ug/kg	130	128	99	54-127	
Benzo(k)fluoranthene	ug/kg	130	138	106	56-120	
Chrysene	ug/kg	130	123	95	56-115	
Dibenz(a,h)anthracene	ug/kg	130	133	102	55-129	
Fluoranthene	ug/kg	130	113	87	56-125	
Fluorene	ug/kg	130	115	89	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	130	132	102	55-129	
Naphthalene	ug/kg	130	106	82	45-102	
Phenanthrene	ug/kg	130	112	86	50-110	
Pyrene	ug/kg	130	112	87	56-122	
2-Fluorobiphenyl (S)	%			94	37-88	ST

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

LABORATORY CONTROL SAMPLE 2103992

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			97	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE 2103993 2103994

Parameter	Units	30405475019 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	64.7	161	161	184	221	74	97	24-109	18	20	
Acenaphthylene	ug/kg	74.8	161	161	187	221	69	91	26-119	17	20	
Anthracene	ug/kg	160	161	161	266	332	66	107	32-115	22	20	R1
Benzo(a)anthracene	ug/kg	219	161	161	308	426	56	128	30-133	32	20	R1
Benzo(a)pyrene	ug/kg	550	161	161	517	775	-21	139	11-151	40	20	ML,R1
Benzo(b)fluoranthene	ug/kg	1340	161	161	831	1230	-318	-73	25-140	38	20	ML,R1
Benzo(g,h,i)perylene	ug/kg	290	161	161	334	422	27	82	10-126	23	20	R1
Benzo(k)fluoranthene	ug/kg	1310	161	161	419	555	-554	-470	25-127	28	20	ML,R1
Chrysene	ug/kg	312	161	161	336	484	15	107	10-142	36	20	R1
Dibenz(a,h)anthracene	ug/kg	105	161	161	199	225	58	75	13-127	12	20	
Fluoranthene	ug/kg	450	161	161	469	678	11	141	20-139	37	20	ML,R1
Fluorene	ug/kg	49.0	161	161	183	220	83	106	28-114	18	20	
Indeno(1,2,3-cd)pyrene	ug/kg	304	161	161	345	446	25	88	15-123	26	20	R1
Naphthalene	ug/kg	116	161	161	266	268	93	95	15-104	1	20	
Phenanthrene	ug/kg	276	161	161	353	475	48	124	10-135	29	20	R1
Pyrene	ug/kg	368	161	161	410	587	26	136	13-139	35	20	R1
2-Fluorobiphenyl (S)	%						84	90	37-88			ST
Terphenyl-d14 (S)	%						92	97	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434613
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016, 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

SAMPLE DUPLICATE: 2098480

Parameter	Units	30405475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.6	15.4	20	20	

SAMPLE DUPLICATE: 2098481

Parameter	Units	30405475002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	9.5	27	20	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435207
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

METHOD BLANK: 2101117 Matrix: Solid
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.39	02/17/21 11:26	
Lead	mg/kg	ND	1.0	0.45	02/17/21 11:26	

LABORATORY CONTROL SAMPLE: 2101118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49	48.2	98	80-120	
Lead	mg/kg	49	47.1	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101120 2101121

Parameter	Units	30405475019 Result	MS Spike Conc	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	6.3	55.6	55.6	56.6	56.8	91	91	75-125	0	20	
Lead	mg/kg	12.5	55.6	55.6	68.6	67.0	101	98	75-125	2	20	

SAMPLE DUPLICATE: 2101119

Parameter	Units	30405475019 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	6.3	8.3	27	20	D6
Lead	mg/kg	12.5	15.0	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435404
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

METHOD BLANK: 2101937 Matrix: Water
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	02/19/21 10:00	
Lead	mg/L	ND	0.025	0.0031	02/19/21 10:00	

METHOD BLANK: 2100601 Matrix: Water
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	02/19/21 10:59	
Lead	mg/L	ND	0.025	0.0031	02/19/21 10:59	

LABORATORY CONTROL SAMPLE: 2101938

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.53	106	80-120	
Lead	mg/L	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101940 2101941

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.52	0.53	102	104	75-125	2	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.51	100	101	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101943 2101944

Parameter	Units	30405475019 Result	MS Spike Conc	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.52	103	103	75-125	1	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.50	100	99	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101946 2101947

Parameter	Units	30405879009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.52	101	105	75-125	3	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.51	99	102	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101949 2101950

Parameter	Units	30405879025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.52	0.51	104	102	75-125	2	20	
Lead	mg/L	ND	0.5	0.5	0.51	0.49	101	99	75-125	3	20	

SAMPLE DUPLICATE: 2101939

Parameter	Units	30405475008 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	.0057J		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101942

Parameter	Units	30405475019 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101945

Parameter	Units	30405879009 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101948

Parameter	Units	30405879025 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435200
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879016, 30405879017, 30405879032, 30405879033

METHOD BLANK: 2101082 Matrix: Water
Associated Lab Samples: 30405879016, 30405879017, 30405879032, 30405879033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	3.3	02/17/21 09:53	
Lead	ug/L	ND	10.0	3.1	02/17/21 09:53	
Total Hardness by SM2340B-2011	ug/L	-35			02/17/21 09:53	

LABORATORY CONTROL SAMPLE: 2101083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	506	101	80-120	
Lead	ug/L	500	495	99	80-120	
Total Hardness by SM2340B-2011	ug/L		30600			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101085 2101086

Parameter	Units	30405528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	545	531	109	106	75-125	3	20	
Lead	ug/L	ND	500	500	514	506	103	101	75-125	1	20	
Total Hardness by SM2340B-2011	ug/L	131000			164000	163000				0		

SAMPLE DUPLICATE: 2101084

Parameter	Units	30405528001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	131000	132000	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435644
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

METHOD BLANK: 2102931 Matrix: Solid
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/kg	ND	5.0	0.94	02/19/21 11:11	
1,2-Dichloroethane-d4 (S)	%.	104	70-130		02/19/21 11:11	
4-Bromofluorobenzene (S)	%.	98	70-130		02/19/21 11:11	
Dibromofluoromethane (S)	%.	100	70-130		02/19/21 11:11	
Toluene-d8 (S)	%.	97	70-130		02/19/21 11:11	

LABORATORY CONTROL SAMPLE: 2102932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	20	16.2	81	65-110	
1,2-Dichloroethane-d4 (S)	%.			99	70-130	
4-Bromofluorobenzene (S)	%.			97	70-130	
Dibromofluoromethane (S)	%.			100	70-130	
Toluene-d8 (S)	%.			98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435567
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

METHOD BLANK: 2101414 Matrix: Solid
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorobenzene	ug/L	ND	50.0	7.8	02/19/21 10:56	
Naphthalene	ug/L	ND	50.0	9.4	02/19/21 10:56	
Tetrachloroethene	ug/L	ND	50.0	17.3	02/19/21 10:56	
1,2-Dichloroethane-d4 (S)	%.	92	70-130		02/19/21 10:56	
4-Bromofluorobenzene (S)	%.	101	70-130		02/19/21 10:56	
Dibromofluoromethane (S)	%.	99	70-130		02/19/21 10:56	
Toluene-d8 (S)	%.	98	70-130		02/19/21 10:56	

LABORATORY CONTROL SAMPLE: 2102704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	20	17.3	86	63-119	
Naphthalene	ug/L	20	14.7	74	65-110	
Tetrachloroethene	ug/L	20	18.0	90	57-124	
1,2-Dichloroethane-d4 (S)	%.			96	70-130	
4-Bromofluorobenzene (S)	%.			92	70-130	
Dibromofluoromethane (S)	%.			106	70-130	
Toluene-d8 (S)	%.			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102701 2102702

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	193	197	96	98	10-139	2	30	
Naphthalene	ug/L	ND	200	200	140	167	70	83	10-154	17	30	
Tetrachloroethene	ug/L	ND	200	200	203	207	101	103	10-144	2	30	
1,2-Dichloroethane-d4 (S)	%.						93	93	70-130			
4-Bromofluorobenzene (S)	%.						100	97	70-130			
Dibromofluoromethane (S)	%.						96	100	70-130			
Toluene-d8 (S)	%.						98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102703 2102724

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	180	196	90	98	10-139	9	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102703 2102724

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	139	150	65	71	10-154	8	30	
Tetrachloroethene	ug/L	ND	200	200	196	216	98	108	10-144	9	30	
1,2-Dichloroethane-d4 (S)	%.						92	96	70-130			
4-Bromofluorobenzene (S)	%.						97	97	70-130			
Dibromofluoromethane (S)	%.						105	103	70-130			
Toluene-d8 (S)	%.						98	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102705 2102725

Parameter	Units	30405879009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	173	187	86	93	10-139	8	30	
Naphthalene	ug/L	ND	200	200	129	155	64	78	10-154	19	30	
Tetrachloroethene	ug/L	ND	200	200	187	198	94	99	10-144	6	30	
1,2-Dichloroethane-d4 (S)	%.						93	94	70-130			
4-Bromofluorobenzene (S)	%.						98	96	70-130			
Dibromofluoromethane (S)	%.						97	103	70-130			
Toluene-d8 (S)	%.						100	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102706 2102726

Parameter	Units	30405879025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	188	190	94	95	10-139	1	30	
Naphthalene	ug/L	ND	200	200	147	154	70	73	10-154	5	30	
Tetrachloroethene	ug/L	ND	200	200	202	210	101	105	10-144	4	30	
1,2-Dichloroethane-d4 (S)	%.						96	95	70-130			
4-Bromofluorobenzene (S)	%.						101	96	70-130			
Dibromofluoromethane (S)	%.						109	98	70-130			
Toluene-d8 (S)	%.						100	112	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435982
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879016, 30405879017, 30405879018, 30405879019, 30405879032, 30405879033

METHOD BLANK: 2104379 Matrix: Water
Associated Lab Samples: 30405879016, 30405879017, 30405879018, 30405879019, 30405879032, 30405879033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	0.82	02/23/21 11:36	
1,2-Dichloroethane-d4 (S)	%.	113	70-130		02/23/21 11:36	
4-Bromofluorobenzene (S)	%.	99	70-130		02/23/21 11:36	
Dibromofluoromethane (S)	%.	109	70-130		02/23/21 11:36	
Toluene-d8 (S)	%.	94	70-130		02/23/21 11:36	

LABORATORY CONTROL SAMPLE 2104380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	21.0	105	55-160	
1,2-Dichloroethane-d4 (S)	%.			108	70-130	
4-Bromofluorobenzene (S)	%.			100	70-130	
Dibromofluoromethane (S)	%.			104	70-130	
Toluene-d8 (S)	%.			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2104381 2104382

Parameter	Units	30406005002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	18.0	18.6	90	93	30-157	3	30	
1,2-Dichloroethane-d4 (S)	%						105	110	70-130			
4-Bromofluorobenzene (S)	%						100	94	70-130			
Dibromofluoromethane (S)	%						99	102	70-130			
Toluene-d8 (S)	%.						99	101	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 436167
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879034, 30405879035

METHOD BLANK: 2105127 Matrix: Water
Associated Lab Samples: 30405879034, 30405879035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	0.82	02/24/21 12:18	
1,2-Dichloroethane-d4 (S)	%.	108	70-130		02/24/21 12:18	
4-Bromofluorobenzene (S)	%.	98	70-130		02/24/21 12:18	
Dibromofluoromethane (S)	%.	109	70-130		02/24/21 12:18	
Toluene-d8 (S)	%.	94	70-130		02/24/21 12:18	

LABORATORY CONTROL SAMPLE: 2105128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	20.7	104	55-160	
1,2-Dichloroethane-d4 (S)	%.			101	70-130	
4-Bromofluorobenzene (S)	%.			104	70-130	
Dibromofluoromethane (S)	%.			105	70-130	
Toluene-d8 (S)	%.			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2105559 2105560

Parameter	Units	30405806010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	24.1	23.7	121	118	30-157	2	30	
1,2-Dichloroethane-d4 (S)	%.						101	110	70-130			
4-Bromofluorobenzene (S)	%.						100	96	70-130			
Dibromofluoromethane (S)	%.						96	92	70-130			
Toluene-d8 (S)	%.						108	105	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 434879
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879016, 30405879017, 30405879032, 30405879033

METHOD BLANK: 2100052 Matrix: Water
Associated Lab Samples: 30405879016, 30405879017, 30405879032, 30405879033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	02/16/21 13:59	
Acenaphthylene	ug/L	ND	0.10	0.021	02/16/21 13:59	
Anthracene	ug/L	ND	0.10	0.022	02/16/21 13:59	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	02/16/21 13:59	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	02/16/21 13:59	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	02/16/21 13:59	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Chrysene	ug/L	ND	0.10	0.033	02/16/21 13:59	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	02/16/21 13:59	
Fluoranthene	ug/L	ND	0.10	0.020	02/16/21 13:59	
Fluorene	ug/L	ND	0.10	0.022	02/16/21 13:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	02/16/21 13:59	
Naphthalene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Phenanthrene	ug/L	ND	0.10	0.027	02/16/21 13:59	
Pyrene	ug/L	ND	0.10	0.021	02/16/21 13:59	
2-Fluorobiphenyl (S)	%.	48	19-92		02/16/21 13:59	
Terphenyl-d14 (S)	%.	64	55-109		02/16/21 13:59	

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.2	58	29-110	
Acenaphthylene	ug/L	2	1.1	55	28-121	
Anthracene	ug/L	2	1.2	59	40-115	
Benzo(a)anthracene	ug/L	2	1.5	76	63-119	
Benzo(a)pyrene	ug/L	2	1.6	79	56-121	
Benzo(b)fluoranthene	ug/L	2	1.8	88	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.6	81	53-123	
Benzo(k)fluoranthene	ug/L	2	1.5	76	57-121	
Chrysene	ug/L	2	1.5	76	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.7	86	55-125	
Fluoranthene	ug/L	2	1.4	72	55-121	
Fluorene	ug/L	2	1.2	58	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	84	56-124	
Naphthalene	ug/L	2	1.1	57	26-104	
Phenanthrene	ug/L	2	1.2	61	38-112	
Pyrene	ug/L	2	1.4	72	56-119	
2-Fluorobiphenyl (S)	%			54	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			78	55-109	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435762
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879002, 30405879010, 30405879012, 30405879014, 30405879026, 30405879028, 30405879030

METHOD BLANK: 2103681 Matrix: Water
Associated Lab Samples: 30405879002, 30405879010, 30405879012, 30405879014, 30405879026, 30405879028, 30405879030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	02/22/21 14:38	
Acenaphthylene	ug/L	ND	0.10	0.021	02/22/21 14:38	
Anthracene	ug/L	ND	0.10	0.022	02/22/21 14:38	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	02/22/21 14:38	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	02/22/21 14:38	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	02/22/21 14:38	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	02/22/21 14:38	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	02/22/21 14:38	
Chrysene	ug/L	ND	0.10	0.033	02/22/21 14:38	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	02/22/21 14:38	
Fluoranthene	ug/L	ND	0.10	0.020	02/22/21 14:38	
Fluorene	ug/L	ND	0.10	0.022	02/22/21 14:38	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	02/22/21 14:38	
Naphthalene	ug/L	ND	0.10	0.042	02/22/21 14:38	
Phenanthrene	ug/L	ND	0.10	0.027	02/22/21 14:38	
Pyrene	ug/L	ND	0.10	0.021	02/22/21 14:38	
2-Fluorobiphenyl (S)	%.	43	19-92		02/22/21 14:38	
Terphenyl-d14 (S)	%.	58	55-109		02/22/21 14:38	

LABORATORY CONTROL SAMPLE: 2103682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.1	53	29-110	
Acenaphthylene	ug/L	2	1.0	50	28-121	
Anthracene	ug/L	2	0.97	49	40-115	
Benzo(a)anthracene	ug/L	2	1.2	62	63-119	L2
Benzo(a)pyrene	ug/L	2	0.97	48	56-121	L2
Benzo(b)fluoranthene	ug/L	2	1.5	74	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.3	66	53-123	
Benzo(k)fluoranthene	ug/L	2	1.3	63	57-121	
Chrysene	ug/L	2	1.3	67	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.4	71	55-125	
Fluoranthene	ug/L	2	1.2	58	55-121	
Fluorene	ug/L	2	1.1	54	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	69	56-124	
Naphthalene	ug/L	2	1.1	55	26-104	
Phenanthrene	ug/L	2	1.1	55	38-112	
Pyrene	ug/L	2	1.2	58	56-119	
2-Fluorobiphenyl (S)	%			47	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

LABORATORY CONTROL SAMPLE: 2103682

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			63	55-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103683 2103684

Parameter	Units	30405475009 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	0.10	2	2	1.1	1.3	50	60	10-125	17	20	
Acenaphthylene	ug/L	ND	2	2	1.1	1.3	53	63	21-116	17	20	
Anthracene	ug/L	ND	2	2	1.1	1.3	53	67	26-114	22	20	R1
Benzo(a)anthracene	ug/L	ND	2	2	1.4	1.6	67	78	39-123	15	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.3	1.5	65	76	24-126	16	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	1.4	63	72	24-135	13	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.1	1.3	55	65	10-132	18	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.2	1.4	60	71	25-123	18	20	
Chrysene	ug/L	ND	2	2	1.2	1.4	60	70	38-113	16	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.2	1.4	59	71	13-122	17	20	
Fluoranthene	ug/L	ND	2	2	1.2	1.5	59	75	32-123	23	20	R1
Fluorene	ug/L	ND	2	2	1.1	1.3	51	63	10-134	20	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.2	1.4	60	70	10-132	17	20	
Naphthalene	ug/L	0.22	2	2	1.1	1.3	46	56	17-98	16	20	
Phenanthrene	ug/L	0.14	2	2	1.1	1.4	50	65	26-116	22	20	R1
Pyrene	ug/L	ND	2	2	1.2	1.5	59	75	31-125	23	20	R1
2-Fluorobiphenyl (S)	%.						44	52	19-92		20	
Terphenyl-d14 (S)	%.						61	74	55-109		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103685 2103686

Parameter	Units	30405475020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	0.96	1.1	48	56	10-125	16	20	
Acenaphthylene	ug/L	ND	2	2	0.94	1.1	47	54	21-116	15	20	
Anthracene	ug/L	ND	2	2	0.92	1.1	46	55	26-114	18	20	
Benzo(a)anthracene	ug/L	ND	2	2	1.1	1.2	57	61	39-123	7	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.1	1.2	53	58	24-126	8	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.1	1.3	54	65	24-135	18	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	0.95	1.1	47	53	10-132	11	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.1	1.1	54	56	25-123	4	20	
Chrysene	ug/L	ND	2	2	1.1	1.2	54	59	38-113	9	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	0.99	1.1	49	55	13-122	11	20	
Fluoranthene	ug/L	ND	2	2	1.0	1.2	52	60	32-123	14	20	
Fluorene	ug/L	ND	2	2	0.96	1.1	48	57	10-134	18	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.0	1.1	50	56	10-132	10	20	
Naphthalene	ug/L	ND	2	2	0.94	1.1	46	56	17-98	19	20	
Phenanthrene	ug/L	ND	2	2	0.95	1.1	47	56	26-116	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103685 2103686

Parameter	Units	30405475020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Pyrene	ug/L	ND	2	2	1.0	1.2	52	59	31-125	13	20	
2-Fluorobiphenyl (S)	%						42	49	19-92		20	
Terphenyl-d14 (S)	%						51	57	55-109		20	SR

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103687 2103688

Parameter	Units	30405879010 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	1.0	1.2	51	59	10-125	14	20	
Acenaphthylene	ug/L	ND	2	2	0.99	1.1	49	56	21-116	14	20	
Anthracene	ug/L	ND	2	2	1.1	1.1	52	57	26-114	8	20	
Benzo(a)anthracene	ug/L	ND	2	2	1.4	1.3	68	65	39-123	5	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.2	1.2	61	60	24-126	3	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	1.2	64	62	24-135	4	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.1	1.1	54	54	10-132	0	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.3	1.2	65	61	25-123	6	20	
Chrysene	ug/L	ND	2	2	1.4	1.3	70	66	38-113	6	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.2	1.1	61	56	13-122	9	20	
Fluoranthene	ug/L	ND	2	2	1.3	1.2	65	62	32-123	4	20	
Fluorene	ug/L	ND	2	2	1.0	1.2	52	59	10-134	13	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.2	1.2	59	57	10-132	3	20	
Naphthalene	ug/L	ND	2	2	1.0	1.2	51	58	17-98	14	20	
Phenanthrene	ug/L	ND	2	2	1.1	1.2	54	59	26-116	9	20	
Pyrene	ug/L	ND	2	2	1.3	1.3	66	62	31-125	6	20	
2-Fluorobiphenyl (S)	%						46	52	19-92		20	
Terphenyl-d14 (S)	%						68	63	55-109		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103689 2103690

Parameter	Units	30405879026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	0.75	1.2	38	59	10-125	44	20	R1
Acenaphthylene	ug/L	ND	2	2	0.75	1.2	37	59	21-116	45	20	R1
Anthracene	ug/L	ND	2	2	0.80	1.2	40	59	26-114	39	20	R1
Benzo(a)anthracene	ug/L	ND	2	2	1.2	1.4	58	69	39-123	17	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.1	1.3	57	67	24-126	15	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.2	1.4	60	70	24-135	16	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.0	1.2	52	60	10-132	15	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.1	1.4	57	68	25-123	18	20	
Chrysene	ug/L	ND	2	2	1.1	1.4	56	69	38-113	20	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.1	1.3	55	63	13-122	15	20	
Fluoranthene	ug/L	ND	2	2	1.0	1.3	51	65	32-123	24	20	R1
Fluorene	ug/L	ND	2	2	0.78	1.2	39	60	10-134	43	20	R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103689 2103690

Parameter	Units	30405879026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.1	1.3	56	64	10-132	14	20	
Naphthalene	ug/L	ND	2	2	0.75	1.2	36	58	17-98	44	20	R1
Phenanthrene	ug/L	ND	2	2	0.82	1.2	40	59	26-116	37	20	R1
Pyrene	ug/L	ND	2	2	1.0	1.3	52	67	31-125	25	20	R1
2-Fluorobiphenyl (S)	%						32	52	19-92		20	
Terphenyl-d14 (S)	%						54	66	55-109		20	SR

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 436066
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

METHOD BLANK: 2104732 Matrix: Solid
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.5	0.59	02/25/21 17:04	
Acenaphthylene	ug/kg	ND	6.5	0.47	02/25/21 17:04	
Anthracene	ug/kg	ND	6.5	0.59	02/25/21 17:04	
Benzo(a)anthracene	ug/kg	ND	6.5	0.77	02/25/21 17:04	
Benzo(a)pyrene	ug/kg	ND	6.5	0.41	02/25/21 17:04	
Benzo(b)fluoranthene	ug/kg	ND	6.5	0.78	02/25/21 17:04	
Benzo(g,h,i)perylene	ug/kg	ND	6.5	0.99	02/25/21 17:04	
Benzo(k)fluoranthene	ug/kg	ND	6.5	1.1	02/25/21 17:04	
Chrysene	ug/kg	ND	6.5	0.34	02/25/21 17:04	
Dibenz(a,h)anthracene	ug/kg	ND	6.5	1.5	02/25/21 17:04	
Fluoranthene	ug/kg	ND	6.5	0.50	02/25/21 17:04	
Fluorene	ug/kg	ND	6.5	0.61	02/25/21 17:04	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.5	1.2	02/25/21 17:04	
Naphthalene	ug/kg	ND	6.5	1.3	02/25/21 17:04	
Phenanthrene	ug/kg	ND	6.5	0.58	02/25/21 17:04	
Pyrene	ug/kg	ND	6.5	0.73	02/25/21 17:04	
2-Fluorobiphenyl (S)	%.	49	37-88		02/25/21 17:04	
Terphenyl-d14 (S)	%.	86	10-128		02/25/21 17:04	

LABORATORY CONTROL SAMPLE 2104733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	131	107	82	47-104	
Acenaphthylene	ug/kg	131	137	105	49-115	
Anthracene	ug/kg	131	110	84	52-115	
Benzo(a)anthracene	ug/kg	131	118	91	54-130	
Benzo(a)pyrene	ug/kg	131	121	92	59-126	
Benzo(b)fluoranthene	ug/kg	131	125	96	55-133	
Benzo(g,h,i)perylene	ug/kg	131	121	92	54-127	
Benzo(k)fluoranthene	ug/kg	131	114	88	56-120	
Chrysene	ug/kg	131	116	89	56-115	
Dibenz(a,h)anthracene	ug/kg	131	122	93	55-129	
Fluoranthene	ug/kg	131	116	89	56-125	
Fluorene	ug/kg	131	110	84	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	131	119	91	55-129	
Naphthalene	ug/kg	131	104	79	45-102	
Phenanthrene	ug/kg	131	109	83	50-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

LABORATORY CONTROL SAMPLE: 2104733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	131	116	89	56-122	
2-Fluorobiphenyl (S)	%.			85	37-88	
Terphenyl-d14 (S)	%.			95	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2104734 2104735

Parameter	Units	30405879003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	156	157	135	142	84	88	24-109	5	20	
Acenaphthylene	ug/kg	ND	156	157	136	135	88	86	26-119	1	20	
Anthracene	ug/kg	ND	156	157	143	142	91	90	32-115	1	20	
Benzo(a)anthracene	ug/kg	ND	156	157	151	153	95	96	30-133	1	20	
Benzo(a)pyrene	ug/kg	ND	156	157	152	148	97	94	11-151	3	20	
Benzo(b)fluoranthene	ug/kg	ND	156	157	154	155	98	98	25-140	0	20	
Benzo(g,h,i)perylene	ug/kg	ND	156	157	133	130	85	82	10-126	3	20	
Benzo(k)fluoranthene	ug/kg	ND	156	157	146	141	94	90	25-127	4	20	
Chrysene	ug/kg	ND	156	157	145	147	92	93	10-142	1	20	
Dibenz(a,h)anthracene	ug/kg	ND	156	157	139	133	90	85	13-127	4	20	
Fluoranthene	ug/kg	ND	156	157	157	183	96	112	20-139	15	20	
Fluorene	ug/kg	ND	156	157	142	148	89	92	28-114	4	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	156	157	137	132	88	84	15-123	4	20	
Naphthalene	ug/kg	ND	156	157	131	137	80	83	15-104	4	20	
Phenanthrene	ug/kg	13.2	156	157	157	199	93	118	10-135	23	20	R1
Pyrene	ug/kg	ND	156	157	154	171	96	106	13-139	11	20	
2-Fluorobiphenyl (S)	%.						86	84	37-88			
Terphenyl-d14 (S)	%.						101	96	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435155
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879001, 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879009, 30405879011, 30405879013, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879025, 30405879027, 30405879029, 30405879031

SAMPLE DUPLICATE: 2100913

Parameter	Units	30405879001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.6	12.1	4	20	

SAMPLE DUPLICATE: 2100914

Parameter	Units	30405879003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.9	15.5	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Rosaytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 435208
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

METHOD BLANK: 2101123 Matrix: Solid
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.39	02/17/21 11:00	
Lead	mg/kg	ND	1.0	0.45	02/17/21 11:00	

LABORATORY CONTROL SAMPLE: 2101124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.2	100	80-120	
Lead	mg/kg	50	48.7	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101126 2101127

Parameter	Units	30405885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.6	58.1	58.1	56.1	72.1	89	116	75-125	25	20	R1
Lead	mg/kg	12.1	58.1	58.1	63.3	69.3	88	98	75-125	9	20	

SAMPLE DUPLICATE: 2101125

Parameter	Units	30405885001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	4.6	5.4	18	20	
Lead	mg/kg	12.1	10.6	14	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 435200
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885006, 30405885007

METHOD BLANK: 2101082 Matrix: Water
Associated Lab Samples: 30405885006, 30405885007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	3.3	02/17/21 09:53	
Lead	ug/L	ND	10.0	3.1	02/17/21 09:53	
Total Hardness by SM2340B-2011	ug/L	-35			02/17/21 09:53	

LABORATORY CONTROL SAMPLE: 2101083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	506	101	80-120	
Lead	ug/L	500	495	99	80-120	
Total Hardness by SM2340B-2011	ug/L		30600			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101085 2101086

Parameter	Units	30405528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	545	531	109	106	75-125	3	20	
Lead	ug/L	ND	500	500	514	506	103	101	75-125	1	20	
Total Hardness by SM2340B-2011	ug/L	131000			164000	163000				0		

SAMPLE DUPLICATE: 2101084

Parameter	Units	30405528001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	131000	132000	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 435321
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

METHOD BLANK: 2101516 Matrix: Solid
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/kg	ND	5.0	0.94	02/17/21 11:21	
1,2-Dichloroethane-d4 (S)	%.	97	70-130		02/17/21 11:21	
4-Bromofluorobenzene (S)	%.	100	70-130		02/17/21 11:21	
Dibromofluoromethane (S)	%.	97	70-130		02/17/21 11:21	
Toluene-d8 (S)	%.	105	70-130		02/17/21 11:21	

LABORATORY CONTROL SAMPLE: 2101517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	20	14.5	72	65-110	
1,2-Dichloroethane-d4 (S)	%.			92	70-130	
4-Bromofluorobenzene (S)	%.			97	70-130	
Dibromofluoromethane (S)	%.			98	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101518 2101519

Parameter	Units	30405885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/kg	ND	23.2	22.8	6.0	5.4J	8	6	10-154		30	ML
1,2-Dichloroethane-d4 (S)	%.						102	102	70-130			
4-Bromofluorobenzene (S)	%.						101	111	70-130			
Dibromofluoromethane (S)	%.						100	100	70-130			
Toluene-d8 (S)	%.						108	98	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 436175
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885006, 30405885007, 30405885008

METHOD BLANK: 2105153 Matrix: Water
Associated Lab Samples: 30405885006, 30405885007, 30405885008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	0.82	02/24/21 12:32	
1,2-Dichloroethane-d4 (S)	%.	115	70-130		02/24/21 12:32	
4-Bromofluorobenzene (S)	%.	103	70-130		02/24/21 12:32	
Dibromofluoromethane (S)	%.	108	70-130		02/24/21 12:32	
Toluene-d8 (S)	%.	94	70-130		02/24/21 12:32	

LABORATORY CONTROL SAMPLE: 2105154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	20.1	101	55-160	
1,2-Dichloroethane-d4 (S)	%.			102	70-130	
4-Bromofluorobenzene (S)	%.			98	70-130	
Dibromofluoromethane (S)	%.			101	70-130	
Toluene-d8 (S)	%.			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2105537 2105538

Parameter	Units	7360727002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	13.9	20	20	32.8	36.0	94	111	30-157	9	30	
1,2-Dichloroethane-d4 (S)	%.						100	106	70-130			
4-Bromofluorobenzene (S)	%.						108	102	70-130			
Dibromofluoromethane (S)	%.						97	97	70-130			
Toluene-d8 (S)	%.						105	105	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 434879
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885006, 30405885007

METHOD BLANK: 2100052 Matrix: Water
Associated Lab Samples: 30405885006, 30405885007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	02/16/21 13:59	
Acenaphthylene	ug/L	ND	0.10	0.021	02/16/21 13:59	
Anthracene	ug/L	ND	0.10	0.022	02/16/21 13:59	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	02/16/21 13:59	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	02/16/21 13:59	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	02/16/21 13:59	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Chrysene	ug/L	ND	0.10	0.033	02/16/21 13:59	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	02/16/21 13:59	
Fluoranthene	ug/L	ND	0.10	0.020	02/16/21 13:59	
Fluorene	ug/L	ND	0.10	0.022	02/16/21 13:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	02/16/21 13:59	
Naphthalene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Phenanthrene	ug/L	ND	0.10	0.027	02/16/21 13:59	
Pyrene	ug/L	ND	0.10	0.021	02/16/21 13:59	
2-Fluorobiphenyl (S)	%.	48	19-92		02/16/21 13:59	
Terphenyl-d14 (S)	%.	64	55-109		02/16/21 13:59	

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.2	58	29-110	
Acenaphthylene	ug/L	2	1.1	55	28-121	
Anthracene	ug/L	2	1.2	59	40-115	
Benzo(a)anthracene	ug/L	2	1.5	76	63-119	
Benzo(a)pyrene	ug/L	2	1.6	79	56-121	
Benzo(b)fluoranthene	ug/L	2	1.8	88	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.6	81	53-123	
Benzo(k)fluoranthene	ug/L	2	1.5	76	57-121	
Chrysene	ug/L	2	1.5	76	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.7	86	55-125	
Fluoranthene	ug/L	2	1.4	72	55-121	
Fluorene	ug/L	2	1.2	58	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	84	56-124	
Naphthalene	ug/L	2	1.1	57	26-104	
Phenanthrene	ug/L	2	1.2	61	38-112	
Pyrene	ug/L	2	1.4	72	56-119	
2-Fluorobiphenyl (S)	%.			54	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

LABORATORY CONTROL SAMPLE 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			78	55-109	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 436193
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

METHOD BLANK: 2105210 Matrix: Solid
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.7	0.60	02/26/21 11:11	
Acenaphthylene	ug/kg	ND	6.7	0.48	02/26/21 11:11	
Anthracene	ug/kg	ND	6.7	0.61	02/26/21 11:11	
Benzo(a)anthracene	ug/kg	ND	6.7	0.78	02/26/21 11:11	
Benzo(a)pyrene	ug/kg	ND	6.7	0.42	02/26/21 11:11	
Benzo(b)fluoranthene	ug/kg	ND	6.7	0.80	02/26/21 11:11	
Benzo(g,h,i)perylene	ug/kg	ND	6.7	1.0	02/26/21 11:11	
Benzo(k)fluoranthene	ug/kg	ND	6.7	1.1	02/26/21 11:11	
Chrysene	ug/kg	ND	6.7	0.35	02/26/21 11:11	
Dibenz(a,h)anthracene	ug/kg	ND	6.7	1.5	02/26/21 11:11	
Fluoranthene	ug/kg	ND	6.7	0.51	02/26/21 11:11	
Fluorene	ug/kg	ND	6.7	0.62	02/26/21 11:11	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.7	1.3	02/26/21 11:11	
Naphthalene	ug/kg	ND	6.7	1.3	02/26/21 11:11	
Phenanthrene	ug/kg	ND	6.7	0.59	02/26/21 11:11	
Pyrene	ug/kg	ND	6.7	0.75	02/26/21 11:11	
2-Fluorobiphenyl (S)	%.	92	37-88		02/26/21 11:11	ST
Terphenyl-d14 (S)	%.	96	10-128		02/26/21 11:11	

LABORATORY CONTROL SAMPLE: 2105211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	131	107	81	47-104	
Acenaphthylene	ug/kg	131	106	81	49-115	
Anthracene	ug/kg	131	107	81	52-115	
Benzo(a)anthracene	ug/kg	131	118	90	54-130	
Benzo(a)pyrene	ug/kg	131	120	91	59-126	
Benzo(b)fluoranthene	ug/kg	131	123	93	55-133	
Benzo(g,h,i)perylene	ug/kg	131	120	92	54-127	
Benzo(k)fluoranthene	ug/kg	131	120	91	56-120	
Chrysene	ug/kg	131	116	89	56-116	
Dibenz(a,h)anthracene	ug/kg	131	122	93	55-129	
Fluoranthene	ug/kg	131	115	87	56-125	
Fluorene	ug/kg	131	108	83	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	131	121	92	55-129	
Naphthalene	ug/kg	131	105	80	45-102	
Phenanthrene	ug/kg	131	107	81	50-110	
Pyrene	ug/kg	131	116	88	56-122	
2-Fluorobiphenyl (S)	%.			87	37-88	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

LABORATORY CONTROL SAMPLE: 2105211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			97	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2105212 2105213

Parameter	Units	30405885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	166	164	147	142	87	85	24-109	3	20	
Acenaphthylene	ug/kg	ND	166	164	151	147	90	89	26-119	2	20	
Anthracene	ug/kg	ND	166	164	156	161	92	96	32-115	3	20	
Benzo(a)anthracene	ug/kg	ND	166	164	162	170	96	101	30-133	5	20	
Benzo(a)pyrene	ug/kg	ND	166	164	161	168	97	102	11-151	4	20	
Benzo(b)fluoranthene	ug/kg	10.5	166	164	169	197	96	113	25-140	15	20	
Benzo(g,h,i)perylene	ug/kg	ND	166	164	158	176	92	103	10-126	11	20	
Benzo(k)fluoranthene	ug/kg	9.4	166	164	159	157	90	90	25-127	1	20	
Chrysene	ug/kg	8.4	166	164	159	171	91	98	10-142	7	20	
Dibenz(a,h)anthracene	ug/kg	ND	166	164	157	158	95	96	13-127	0	20	
Fluoranthene	ug/kg	ND	166	164	166	180	96	105	20-139	8	20	
Fluorene	ug/kg	ND	166	164	157	156	94	95	28-114	0	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	166	164	158	170	95	103	15-123	7	20	
Naphthalene	ug/kg	12.1	166	164	154	156	85	87	15-104	2	20	
Phenanthrene	ug/kg	21.1	166	164	165	191	87	103	10-135	15	20	
Pyrene	ug/kg	ND	166	164	165	182	96	107	13-139	10	20	
2-Fluorobiphenyl (S)	%						96	90	37-88			ST
Terphenyl-d14 (S)	%.						103	106	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 435161
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

SAMPLE DUPLICATE: 2100917

Parameter	Units	30406054001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.0	20.1	0	20	2c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440901
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

METHOD BLANK: 2128371 Matrix: Solid
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.39	03/30/21 15:10	
Lead	mg/kg	ND	1.0	0.45	03/30/21 15:10	

LABORATORY CONTROL SAMPLE: 2128372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.8	100	80-120	
Lead	mg/kg	50	46.9	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128374 2128375

Parameter	Units	30411349005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	12.3	85.7	85.7	88.7	87.6	89	88	75-125	1	20	
Lead	mg/kg	18.5	85.7	85.7	92.0	89.5	86	83	75-125	3	20	

SAMPLE DUPLICATE: 2128373

Parameter	Units	30411349005 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	12.3	14.2	14	20	
Lead	mg/kg	18.5	18.0	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440669
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019

METHOD BLANK: 2127416 Matrix: Water
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/29/21 13:55	3c,5c,7c
Lead	mg/L	ND	0.025	0.0031	03/29/21 13:55	3c,5c,7c

METHOD BLANK: 2126160 Matrix: Water
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/29/21 14:01	3c,5c,7c
Lead	mg/L	ND	0.025	0.0031	03/29/21 14:01	3c,5c,7c

METHOD BLANK: 2126190 Matrix: Water
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/29/21 14:04	3c,5c,7c
Lead	mg/L	ND	0.025	0.0031	03/29/21 14:04	3c,5c,7c

LABORATORY CONTROL SAMPLE: 2127417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.47	93	80-120	3c,5c,7c
Lead	mg/L	0.5	0.47	93	80-120	3c,5c,7c

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127419 2127420

Parameter	Units	30411722002 Result	MS Spike Conc	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.48	0.50	96	99	75-125	4	20	3c,5c,7c
Lead	mg/L	ND	0.5	0.5	0.48	0.49	95	99	75-125	4	20	3c,5c,7c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

MATRIX SPIKE SAMPLE: 2127422

Parameter	Units	7364343007 Result	Spike Conc	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	0.5	0.51	101	75-125	3c,5c,7c
Lead	mg/L	ND	0.5	0.50	100	75-125	3c,5c,7c

SAMPLE DUPLICATE: 2127418

Parameter	Units	30411722002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	3c,5c,7c
Lead	mg/L	ND	ND		20	3c,5c,7c

SAMPLE DUPLICATE: 2127421

Parameter	Units	7364343007 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	3c,5c,7c
Lead	mg/L	ND	ND		20	3c,5c,7c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440834
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349021

METHOD BLANK: 2128138 Matrix: Water
Associated Lab Samples: 30411349021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/31/21 13:41	4c,6c,8c
Lead	mg/L	ND	0.025	0.0031	03/31/21 13:41	4c,6c,8c

METHOD BLANK: 2127082 Matrix: Water
Associated Lab Samples: 30411349021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/31/21 13:46	4c,6c,8c
Lead	mg/L	ND	0.025	0.0031	03/31/21 13:46	4c,6c,8c

METHOD BLANK: 2127083 Matrix: Water
Associated Lab Samples: 30411349021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/31/21 13:49	4c,6c,8c
Lead	mg/L	ND	0.025	0.0031	03/31/21 13:49	4c,6c,8c

LABORATORY CONTROL SAMPLE: 2128139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.50	100	80-120	4c,6c,8c
Lead	mg/L	0.5	0.49	99	80-120	4c,6c,8c

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128141 2128142

Parameter	Units	7364343001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.49	101	98	75-125	3	20	4c,6c,8c
Lead	mg/L	0.0038J	0.5	0.5	0.50	0.48	99	96	75-125	3	20	4c,6c,8c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

SAMPLE DUPLICATE: 2128140

Parameter	Units	7364343001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	0035J		20	4c,6c,8c
Lead	mg/L	0 0038J	ND		20	4c,6c,8c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440070
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025

METHOD BLANK: 2124625 Matrix: Water
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	3.3	03/25/21 13:40	
Lead	ug/L	ND	10.0	3.1	03/25/21 13:40	
Total Hardness by SM2340B-2011	ug/L	-20			03/25/21 13:40	

LABORATORY CONTROL SAMPLE: 2124626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	491	98	80-120	
Lead	ug/L	500	485	97	80-120	
Total Hardness by SM2340B-2011	ug/L		33500			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2124628 2124629

Parameter	Units	30409429001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	506	504	101	100	75-125	0	20	
Lead	ug/L	ND	500	500	491	502	98	100	75-125	2	20	
Total Hardness by SM2340B-2011	ug/L	127000			154000	155000				1		

SAMPLE DUPLICATE: 2124627

Parameter	Units	30409429001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	127000	129000	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440200
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

METHOD BLANK: 2125238 Matrix: Solid
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/kg	ND	5.0	0.94	03/24/21 12:15	
1,2-Dichloroethane-d4 (S)	%.	97	70-130		03/24/21 12:15	
4-Bromofluorobenzene (S)	%.	100	70-130		03/24/21 12:15	
Dibromofluoromethane (S)	%.	99	70-130		03/24/21 12:15	
Toluene-d8 (S)	%.	101	70-130		03/24/21 12:15	

LABORATORY CONTROL SAMPLE: 2125239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	20	16.7	83	65-110	
1,2-Dichloroethane-d4 (S)	%.			92	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Dibromofluoromethane (S)	%.			95	70-130	
Toluene-d8 (S)	%.			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2125240 2125241

Parameter	Units	30411349005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/kg	ND	47.3	31.1	16.9	13.5	36	43	10-154	22	30	
1,2-Dichloroethane-d4 (S)	%						98	92	70-130			
4-Bromofluorobenzene (S)	%						101	101	70-130			
Dibromofluoromethane (S)	%						93	97	70-130			
Toluene-d8 (S)	%.						106	106	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440611
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019, 30411349021

METHOD BLANK: 2126193 Matrix: Solid
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019, 30411349021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorobenzene	ug/L	ND	50.0	7.8	03/26/21 12:44	
Naphthalene	ug/L	ND	50.0	9.4	03/26/21 12:44	
Tetrachloroethene	ug/L	ND	50.0	17.3	03/26/21 12:44	
1,2-Dichloroethane-d4 (S)	%.	97	70-130		03/26/21 12:44	
4-Bromofluorobenzene (S)	%.	99	70-130		03/26/21 12:44	
Dibromofluoromethane (S)	%.	96	70-130		03/26/21 12:44	
Toluene-d8 (S)	%.	103	70-130		03/26/21 12:44	

LABORATORY CONTROL SAMPLE: 2127167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	20	16.2	81	63-119	
Naphthalene	ug/L	20	17.1	86	65-110	
Tetrachloroethene	ug/L	20	16.3	82	57-124	
1,2-Dichloroethane-d4 (S)	%.			99	70-130	
4-Bromofluorobenzene (S)	%.			102	70-130	
Dibromofluoromethane (S)	%.			96	70-130	
Toluene-d8 (S)	%.			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127168 2127169

Parameter	Units	30411349003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	153	157	76	79	10-139	3	30	
Naphthalene	ug/L	ND	200	200	142	141	71	71	10-154	0	30	
Tetrachloroethene	ug/L	ND	200	200	157	160	78	80	10-144	2	30	
1,2-Dichloroethane-d4 (S)	%.						95	84	70-130			
4-Bromofluorobenzene (S)	%.						103	101	70-130			
Dibromofluoromethane (S)	%.						96	97	70-130			
Toluene-d8 (S)	%.						106	104	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical
www.pacelabs.com

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440755
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025, 30411349026, 30411349027, 30411349028

METHOD BLANK: 2127872 Matrix: Water
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025, 30411349026, 30411349027, 30411349028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	0.82	03/27/21 11:32	
1,2-Dichloroethane-d4 (S)	%.	106	70-130		03/27/21 11:32	
4-Bromofluorobenzene (S)	%.	103	70-130		03/27/21 11:32	
Dibromofluoromethane (S)	%.	93	70-130		03/27/21 11:32	
Toluene-d8 (S)	%.	101	70-130		03/27/21 11:32	

LABORATORY CONTROL SAMPLE 2127873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	18.7	94	55-160	
1,2-Dichloroethane-d4 (S)	%.			110	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			95	70-130	
Toluene-d8 (S)	%.			110	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127992 2127993

Parameter	Units	7364590001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	15.2	16.2	76	81	30-157	7	30	
1,2-Dichloroethane-d4 (S)	%.						106	108	70-130			
4-Bromofluorobenzene (S)	%.						102	105	70-130			
Dibromofluoromethane (S)	%.						103	96	70-130			
Toluene-d8 (S)	%.						105	106	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 439827
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025

METHOD BLANK: 2123647 Matrix: Water
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	03/24/21 15:41	
Acenaphthylene	ug/L	ND	0.10	0.021	03/24/21 15:41	
Anthracene	ug/L	ND	0.10	0.022	03/24/21 15:41	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	03/24/21 15:41	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	03/24/21 15:41	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	03/24/21 15:41	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	03/24/21 15:41	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	03/24/21 15:41	
Chrysene	ug/L	ND	0.10	0.033	03/24/21 15:41	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	03/24/21 15:41	
Fluoranthene	ug/L	ND	0.10	0.020	03/24/21 15:41	
Fluorene	ug/L	ND	0.10	0.022	03/24/21 15:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	03/24/21 15:41	
Naphthalene	ug/L	ND	0.10	0.042	03/24/21 15:41	
Phenanthrene	ug/L	ND	0.10	0.027	03/24/21 15:41	
Pyrene	ug/L	ND	0.10	0.021	03/24/21 15:41	
2-Fluorobiphenyl (S)	%.	90	19-92		03/24/21 15:41	
Terphenyl-d14 (S)	%.	102	55-109		03/24/21 15:41	

LABORATORY CONTROL SAMPLE: 2123648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.8	90	29-110	
Acenaphthylene	ug/L	2	1.8	89	28-121	
Anthracene	ug/L	2	1.8	92	40-115	
Benzo(a)anthracene	ug/L	2	2.0	99	63-119	
Benzo(a)pyrene	ug/L	2	1.9	96	56-121	
Benzo(b)fluoranthene	ug/L	2	1.9	97	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.9	93	53-123	
Benzo(k)fluoranthene	ug/L	2	1.9	97	57-121	
Chrysene	ug/L	2	2.0	98	62-109	
Dibenz(a,h)anthracene	ug/L	2	2.0	99	55-125	
Fluoranthene	ug/L	2	2.0	100	55-121	
Fluorene	ug/L	2	1.9	93	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.9	97	56-124	
Naphthalene	ug/L	2	1.7	86	26-104	
Phenanthrene	ug/L	2	1.9	93	38-112	
Pyrene	ug/L	2	2.0	101	56-119	
2-Fluorobiphenyl (S)	%.			87	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

LABORATORY CONTROL SAMPLE: 2123648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			101	55-109	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440962
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349029, 30411349030, 30411349031, 30411349032, 30411349033, 30411349034, 30411349035

METHOD BLANK: 2128667 Matrix: Water
Associated Lab Samples: 30411349029, 30411349030, 30411349031, 30411349032, 30411349033, 30411349034, 30411349035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	04/01/21 15:12	
Acenaphthylene	ug/L	ND	0.10	0.021	04/01/21 15:12	
Anthracene	ug/L	ND	0.10	0.022	04/01/21 15:12	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	04/01/21 15:12	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	04/01/21 15:12	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	04/01/21 15:12	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	04/01/21 15:12	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	04/01/21 15:12	
Chrysene	ug/L	ND	0.10	0.033	04/01/21 15:12	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	04/01/21 15:12	
Fluoranthene	ug/L	ND	0.10	0.020	04/01/21 15:12	
Fluorene	ug/L	ND	0.10	0.022	04/01/21 15:12	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	04/01/21 15:12	
Naphthalene	ug/L	ND	0.10	0.042	04/01/21 15:12	
Phenanthrene	ug/L	ND	0.10	0.027	04/01/21 15:12	
Pyrene	ug/L	ND	0.10	0.021	04/01/21 15:12	
2-Fluorobiphenyl (S)	%.	78	19-92		04/01/21 15:12	
Terphenyl-d14 (S)	%.	93	55-109		04/01/21 15:12	

METHOD BLANK: 2128668 Matrix: Water
Associated Lab Samples: 30411349029, 30411349030, 30411349031, 30411349032, 30411349033, 30411349034, 30411349035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	04/01/21 15:29	
Acenaphthylene	ug/L	ND	0.10	0.021	04/01/21 15:29	
Anthracene	ug/L	ND	0.10	0.022	04/01/21 15:29	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	04/01/21 15:29	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	04/01/21 15:29	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	04/01/21 15:29	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	04/01/21 15:29	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	04/01/21 15:29	
Chrysene	ug/L	ND	0.10	0.033	04/01/21 15:29	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	04/01/21 15:29	
Fluoranthene	ug/L	ND	0.10	0.020	04/01/21 15:29	
Fluorene	ug/L	ND	0.10	0.022	04/01/21 15:29	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	04/01/21 15:29	
Naphthalene	ug/L	ND	0.10	0.042	04/01/21 15:29	
Phenanthrene	ug/L	ND	0.10	0.027	04/01/21 15:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

METHOD BLANK: 2128668 Matrix: Water
Associated Lab Samples: 30411349029, 30411349030, 30411349031, 30411349032, 30411349033, 30411349034, 30411349035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Pyrene	ug/L	ND	0.10	0.021	04/01/21 15:29	
2-Fluorobiphenyl (S)	%	86	19-92		04/01/21 15:29	
Terphenyl-d14 (S)	%.	95	55-109		04/01/21 15:29	

LABORATORY CONTROL SAMPLE: 2128669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.7	84	29-110	
Acenaphthylene	ug/L	2	1.7	85	28-121	
Anthracene	ug/L	2	1.8	88	40-115	
Benzo(a)anthracene	ug/L	2	2.1	103	63-119	
Benzo(a)pyrene	ug/L	2	2.1	103	56-121	
Benzo(b)fluoranthene	ug/L	2	2.1	104	61-126	
Benzo(g,h,i)perylene	ug/L	2	2.1	106	53-123	
Benzo(k)fluoranthene	ug/L	2	2.0	99	57-121	
Chrysene	ug/L	2	2.0	98	62-109	
Dibenz(a,h)anthracene	ug/L	2	2.3	114	55-125	
Fluoranthene	ug/L	2	1.9	97	55-121	
Fluorene	ug/L	2	1.8	88	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.2	111	56-124	
Naphthalene	ug/L	2	1.7	83	26-104	
Phenanthrene	ug/L	2	1.8	89	38-112	
Pyrene	ug/L	2	1.9	97	56-119	
2-Fluorobiphenyl (S)	%.			79	19-92	
Terphenyl-d14 (S)	%.			94	55-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128670 2128671

Parameter	Units	30411349029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	1.5	1.5	76	75	10-125	1	20	
Acenaphthylene	ug/L	ND	2	2	1.6	1.6	78	78	21-116	1	20	
Anthracene	ug/L	ND	2	2	1.6	1.6	82	80	26-114	3	20	
Benzo(a)anthracene	ug/L	ND	2	2	2.1	2.0	106	100	39-123	7	20	
Benzo(a)pyrene	ug/L	ND	2	2	2.0	1.8	98	91	24-126	8	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	2.0	1.9	99	95	24-135	4	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.8	1.6	89	82	10-132	8	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	2.0	1.9	101	95	25-123	7	20	
Chrysene	ug/L	ND	2	2	2.0	1.9	100	94	38-113	6	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	2.2	2.0	110	101	13-122	8	20	
Fluoranthene	ug/L	ND	2	2	1.9	1.8	95	90	32-123	5	20	
Fluorene	ug/L	ND	2	2	1.6	1.6	80	78	10-134	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128670 2128671

Parameter	Units	30411349029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	2.0	1.8	99	91	10-132	8	20	
Naphthalene	ug/L	ND	2	2	1.5	1.5	75	76	17-98	1	20	
Phenanthrene	ug/L	ND	2	2	1.7	1.6	84	81	26-116	4	20	
Pyrene	ug/L	ND	2	2	1.9	1.8	95	91	31-125	4	20	
2-Fluorobiphenyl (S)	%.						72	71	19-92		20	
Terphenyl-d14 (S)	%.						93	86	55-109		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 439851
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

METHOD BLANK: 2123715 Matrix: Solid
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.6	0.60	03/24/21 13:23	
Acenaphthylene	ug/kg	ND	6.6	0.48	03/24/21 13:23	
Anthracene	ug/kg	ND	6.6	0.60	03/24/21 13:23	
Benzo(a)anthracene	ug/kg	ND	6.6	0.78	03/24/21 13:23	
Benzo(a)pyrene	ug/kg	ND	6.6	0.42	03/24/21 13:23	
Benzo(b)fluoranthene	ug/kg	ND	6.6	0.80	03/24/21 13:23	
Benzo(g,h,i)perylene	ug/kg	ND	6.6	1.0	03/24/21 13:23	
Benzo(k)fluoranthene	ug/kg	ND	6.6	1.1	03/24/21 13:23	
Chrysene	ug/kg	ND	6.6	0.34	03/24/21 13:23	
Dibenz(a,h)anthracene	ug/kg	ND	6.6	1.5	03/24/21 13:23	
Fluoranthene	ug/kg	ND	6.6	0.50	03/24/21 13:23	
Fluorene	ug/kg	ND	6.6	0.62	03/24/21 13:23	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.6	1.3	03/24/21 13:23	
Naphthalene	ug/kg	ND	6.6	1.3	03/24/21 13:23	
Phenanthrene	ug/kg	ND	6.6	0.59	03/24/21 13:23	
Pyrene	ug/kg	ND	6.6	0.75	03/24/21 13:23	
2-Fluorobiphenyl (S)	%.	92	37-88		03/24/21 13:23	ST
Terphenyl-d14 (S)	%.	106	10-128		03/24/21 13:23	

LABORATORY CONTROL SAMPLE: 2123716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	131	117	89	47-104	
Acenaphthylene	ug/kg	131	124	95	49-115	
Anthracene	ug/kg	131	129	99	52-115	
Benzo(a)anthracene	ug/kg	131	134	102	54-130	
Benzo(a)pyrene	ug/kg	131	139	106	59-126	
Benzo(b)fluoranthene	ug/kg	131	142	108	55-133	
Benzo(g,h,i)perylene	ug/kg	131	133	101	54-127	
Benzo(k)fluoranthene	ug/kg	131	137	105	56-120	
Chrysene	ug/kg	131	130	99	56-115	
Dibenz(a,h)anthracene	ug/kg	131	135	103	55-129	
Fluoranthene	ug/kg	131	132	101	56-125	
Fluorene	ug/kg	131	124	95	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	131	133	101	55-129	
Naphthalene	ug/kg	131	113	86	45-102	
Phenanthrene	ug/kg	131	127	97	50-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

LABORATORY CONTROL SAMPLE: 2123716

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	131	130	99	56-122	
2-Fluorobiphenyl (S)	%			93	37-88	ST
Terphenyl-d14 (S)	%			105	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2123717 2123718

Parameter	Units	30411349005 Result	MS Spike Conc	MSD Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	250	252	220	226	84	86	24-109	3	20	
Acenaphthylene	ug/kg	18.2	250	252	257	253	96	93	26-119	2	20	
Anthracene	ug/kg	33.1	250	252	276	266	97	93	32-115	3	20	
Benzo(a)anthracene	ug/kg	116	250	252	365	308	100	77	30-133	17	20	
Benzo(a)pyrene	ug/kg	105	250	252	340	306	94	80	11-151	10	20	
Benzo(b)fluoranthene	ug/kg	240	250	252	470	382	92	57	25-140	21	20	R1
Benzo(g,h,i)perylene	ug/kg	55.3	250	252	257	239	81	73	10-126	7	20	
Benzo(k)fluoranthene	ug/kg	66.8	250	252	326	283	104	86	25-127	14	20	
Chrysene	ug/kg	181	250	252	426	317	98	54	10-142	29	20	R1
Dibenz(a,h)anthracene	ug/kg	19.4	250	252	226	229	83	83	13-127	1	20	
Fluoranthene	ug/kg	248	250	252	515	368	107	47	20-139	33	20	R1
Fluorene	ug/kg	ND	250	252	232	238	89	91	28-114	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	53.0	250	252	260	247	83	77	15-123	5	20	
Naphthalene	ug/kg	16.6	250	252	228	224	85	83	15-104	2	20	
Phenanthrene	ug/kg	61.7	250	252	308	273	99	84	10-135	12	20	
Pyrene	ug/kg	234	250	252	486	355	101	48	13-139	31	20	R1
2-Fluorobiphenyl (S)	%						87	93	37-88			ST
Terphenyl-d14 (S)	%						90	103	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 439721
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349001, 30411349002, 30411349003, 30411349004, 30411349005, 30411349006, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349012, 30411349013, 30411349014, 30411349015, 30411349016, 30411349017, 30411349018, 30411349019, 30411349020

SAMPLE DUPLICATE: 2123278

Parameter	Units	30411349001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	52.7	49.5	6	20	

SAMPLE DUPLICATE: 2123279

Parameter	Units	30411349002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	36.0	34.0	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 439722
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30411349021

SAMPLE DUPLICATE: 2123280

Parameter	Units	30411449001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.2	24.5	6	20	

SAMPLE DUPLICATE: 2123281

Parameter	Units	30411449002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.6	26.1	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 434879

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	The read back of the low concentration calibration standard for this compound is not within 30% of the true value. The results may be biased low and should be considered estimated.
B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

ANALYTE QUALIFIERS

SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 434879

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 435161

[1] Due to a login error, only one DUP was performed with this batch.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	Due to a login error, only one DUP was performed with this batch.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 434879

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 435644

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
O6	The precision between the sample and sample duplicate exceeded laboratory control limits.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 439827

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 440718

[1] The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.

[2] The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.

[3] The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.

Batch: 440936

[1] The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.

[2] The CCB for Be and Mn is greater than the MDL for 7364343-001 and 005 for SPLP metals.

[3] The ICB and CCB for Sr are greater than the MDL for 30412191-002 and 005 for SPLP metals.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

3c The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.

4c The CCB for Be and Mn is greater than the MDL for 7364343-001 and 005 for SPLP metals.

5c The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.

6c The ICB and CCB for Sr are greater than the MDL for 30412191-002 and 005 for SPLP metals.

7c The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

ANALYTE QUALIFIERS

8c	The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.
R1	RPD value was outside control limits.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30405475001	SSS-15(0'-2')	Solid	02/08/21 16:05	02/10/21 11:50
30405475002	SSB-15(2'-8')	Solid	02/08/21 16:10	02/10/21 11:50
30405475003	SSS-14(0'-2')	Solid	02/08/21 15:15	02/10/21 11:50
30405475004	SSB-14(2'-8')	Solid	02/08/21 15:20	02/10/21 11:50
30405475005	SSB-14(2'-8') Dup	Solid	02/08/21 15:20	02/10/21 11:50
30405475006	SSS-13(0'-2')	Solid	02/08/21 15:00	02/10/21 11:50
30405475007	SSB-13(2'-8')	Solid	02/08/21 15:05	02/10/21 11:50
30405475008	SSS-12(0'-2')	Solid	02/08/21 13:30	02/10/21 11:50
30405475009	SSS-12(0'-2')(SPLP)	Water	02/17/21 09:21	02/17/21 09:21
30405475010	SSS-12(0'-2')MS	Solid	02/08/21 14:00	02/10/21 11:50
30405475011	SSS-12(0'-2')MS(SPLP)	Water	02/17/21 09:21	02/17/21 09:21
30405475012	SSS-12(0'-2')MSD	Solid	02/08/21 14:00	02/10/21 11:50
30405475013	SSS-12(0'-2')MSD(SPLP)	Water	02/17/21 09:21	02/17/21 09:21
30405475014	SSB-12(2'-8')	Solid	02/08/21 14:20	02/10/21 11:50
30405475015	SSS-11(0'-2')	Solid	02/08/21 17:15	02/10/21 11:50
30405475016	SSB-11(2'-8')	Solid	02/08/21 17:20	02/10/21 11:50
30405475017	Equipment Blank 1	Water	02/08/21 17:00	02/10/21 11:50
30405475018	Field Blank 1	Water	02/08/21 16:40	02/10/21 11:50
30405475019	SSS-10 (0'-2')	Solid	02/09/21 13:30	02/10/21 11:50
30405475020	SSS-10 (0'-2')(SPLP)	Water	02/17/21 13:29	02/17/21 13:29
30405475021	SSS-10 (0'-2')MS	Solid	02/09/21 13:50	02/10/21 11:50
30405475022	SSS-10 (0'-2')MS(SPLP)	Water	02/17/21 13:29	02/17/21 13:29
30405475023	SSS-10 (0'-2')MSD	Solid	02/09/21 13:50	02/10/21 11:50
30405475024	SSS-10 (0'-2')MSD(SPLP)	Water	02/17/21 13:29	02/17/21 13:29
30405475025	Equipment Blank 2	Water	02/09/21 13:00	02/10/21 11:50
30405475026	SSB-10 (2'-8')	Solid	02/09/21 14:20	02/10/21 11:50
30405475027	SSS-9 (0-2)	Solid	02/09/21 16:40	02/10/21 11:50
30405475028	SSS-9 (0-2) Dup	Solid	02/09/21 16:40	02/10/21 11:50
30405475029	SSS-9 (2-8)	Solid	02/09/21 16:50	02/10/21 11:50
30405475030	Field Blank	Water	02/09/21 16:50	02/10/21 11:50
30405475031	Trip Blank 1	Water	02/09/21 00:01	02/10/21 11:50

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30405879001	SSS-02(0'-2')	Solid	02/10/21 14:35	02/12/21 12:40
30405879002	SSS-02(0'-2')(SPLP)	Water	02/17/21 11:44	02/17/21 11:44
30405879003	SSB-02(2'-8')	Solid	02/10/21 14:45	02/12/21 12:40
30405879004	SSS-03(0'-2')	Solid	02/10/21 13:00	02/12/21 12:40
30405879005	SSB-03(2'-8')	Solid	02/10/21 13:10	02/12/21 12:40
30405879006	SSB-03(2'-8')DUP	Solid	02/10/21 13:10	02/12/21 12:40
30405879007	SSS-04(0'-2')	Solid	02/10/21 15:50	02/12/21 12:40
30405879008	SSB-04(2'-8')	Solid	02/10/21 16:00	02/12/21 12:40
30405879009	SSB-05(0'-2')	Solid	02/10/21 11:20	02/12/21 12:40
30405879010	SSB-05(0'-2')(SPLP)	Water	02/17/21 13:07	02/17/21 13:07
30405879011	SSB-05(0'-2')MS	Solid	02/10/21 11:50	02/12/21 12:40
30405879012	SSB-05(0'-2')MS(SPLP)	Water	02/17/21 13:07	02/17/21 13:07
30405879013	SSB-05(0'-2')MSD	Solid	02/10/21 11:50	02/12/21 12:40
30405879014	SSB-05(0'-2')MSD(SPLP)	Water	02/17/21 13:07	02/17/21 13:07
30405879015	SSB-05(2'-8')	Solid	02/10/21 12:05	02/12/21 12:40
30405879016	Equipment Blank 3	Water	02/10/21 12:45	02/12/21 12:40
30405879017	Field Blank 3	Water	02/10/21 12:45	02/12/21 12:40
30405879018	Trip Blank 2	Water	02/10/21 00:01	02/12/21 12:40
30405879019	Trip Blank 3	Water	02/10/21 00:01	02/12/21 12:40
30405879020	SSS-06 (0'-2')	Solid	02/11/21 11:30	02/12/21 12:40
30405879021	SSB-06 (2'-8')	Solid	02/11/21 11:40	02/12/21 12:40
30405879022	SSS-07 (0'-2')	Solid	02/11/21 13:05	02/12/21 12:40
30405879023	SSB-07 (2'-8')	Solid	02/11/21 13:20	02/12/21 12:40
30405879024	SSB-07 (2'-8')DUP	Solid	02/11/21 13:20	02/12/21 12:40
30405879025	SSS-08 (0'-2')	Solid	02/11/21 14:30	02/12/21 12:40
30405879026	SSS-08 (0'-2')(SPLP)	Water	02/17/21 13:37	02/17/21 13:37
30405879027	SSS-08 (0'-2')MS	Solid	02/11/21 14:50	02/12/21 12:40
30405879028	SSS-08 (0'-2')MS(SPLP)	Water	02/17/21 13:37	02/17/21 13:37
30405879029	SSS-08 (0'-2')MSD	Solid	02/11/21 14:50	02/12/21 12:40
30405879030	SSS-08 (0'-2')MSD(SPLP)	Water	02/17/21 13:37	02/17/21 13:37
30405879031	SSB-08 (2'-8')	Solid	02/11/21 15:05	02/12/21 12:40
30405879032	Equipment Blank 4	Water	02/11/21 12:50	02/12/21 12:40
30405879033	Field Blank 4	Water	02/11/21 12:30	02/12/21 12:40
30405879034	Trip Blank 4	Water	02/11/21 00:01	02/12/21 12:40
30405879035	Trip Blank 5	Water	02/11/21 00:01	02/12/21 12:40

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30405885001	SSS-01 (0'-2')	Solid	02/12/21 10:50	02/12/21 15:45
30405885002	SSS-01 (0'-2') MS	Solid	02/12/21 11:20	02/12/21 15:45
30405885003	SSS-01 (0'-2') MSD	Solid	02/12/21 11:20	02/12/21 15:45
30405885004	SSB-01 (2'-8')	Solid	02/12/21 11:35	02/12/21 15:45
30405885005	SSB-01 (2'-8') Dup	Solid	02/12/21 11:35	02/12/21 15:45
30405885006	Field Blank 5	Water	02/12/21 10:15	02/12/21 15:45
30405885007	Equipment Blank 5	Water	02/12/21 10:05	02/12/21 15:45
30405885008	Trip Blank	Water	02/12/21 10:05	02/12/21 15:45

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30411349001	SED-1-U (0-0.5)	Solid	03/16/21 16:10	03/19/21 10:00
30411349002	SED-1-D (0-0.5)	Solid	03/16/21 16:10	03/19/21 10:00
30411349003	SPLP-1 (0-0.5)	Solid	03/16/21 16:10	03/19/21 10:00
30411349004	SED-2-U (0-0.5)	Solid	03/17/21 09:30	03/19/21 10:00
30411349005	SED-2-D (0-0.5)	Solid	03/17/21 09:30	03/19/21 10:00
30411349006	SPLP-2 (0-0.5)	Solid	03/17/21 09:30	03/19/21 10:00
30411349007	SED-2-D (0-0.5) MS	Solid	03/17/21 09:40	03/19/21 10:00
30411349008	SED-2-D (0-0.5) MSD	Solid	03/17/21 09:45	03/19/21 10:00
30411349009	SED-2-D (0-0.5) Dup	Solid	03/17/21 09:30	03/19/21 10:00
30411349010	SED-3-U (0-0.5)	Solid	03/17/21 10:55	03/19/21 10:00
30411349011	SED-3-D (0-0.5)	Solid	03/17/21 10:50	03/19/21 10:00
30411349012	SPLP-3 (0-0.5)	Solid	03/17/21 11:00	03/19/21 10:00
30411349013	SED-4-U (0-0.5)	Solid	03/17/21 11:55	03/19/21 10:00
30411349014	SPLP-4 (0-0.5)	Solid	03/17/21 12:00	03/19/21 10:00
30411349015	SED-5-U (0-0.5)	Solid	03/17/21 13:35	03/19/21 10:00
30411349016	SED-5-D (0-0.5)	Solid	03/17/21 13:30	03/19/21 10:00
30411349017	SPLP-5- (0-0.5)	Solid	03/17/21 13:40	03/19/21 10:00
30411349018	SED-6-U (0-0.5)	Solid	03/17/21 16:00	03/19/21 10:00
30411349019	SPLP-6 (0-0.5)	Solid	03/17/21 16:05	03/19/21 10:00
30411349020	SED-7-U (0-0.5)	Solid	03/17/21 17:55	03/19/21 10:00
30411349021	SPLP-7 (0-0.5)	Solid	03/17/21 18:00	03/19/21 10:00
30411349022	Field Blank 1	Water	03/16/21 14:30	03/19/21 10:00
30411349023	Equipment Blank 1	Water	03/16/21 09:00	03/19/21 10:00
30411349024	Field Blank 2	Water	03/16/21 17:05	03/19/21 10:00
30411349025	Equipment Blank 2	Water	03/16/21 17:00	03/19/21 10:00
30411349026	Trip Blank 1	Water	03/16/21 00:01	03/19/21 10:00
30411349027	Trip Blank 2	Water	03/16/21 00:01	03/19/21 10:00
30411349028	Trip Blank 3	Water	03/16/21 00:01	03/19/21 10:00
30411349029	SPLP-1(0-0.5) Leachate	Water	03/26/21 09:37	03/26/21 09:37
30411349030	SPLP-2(0-0.5) Leachate	Water	03/26/21 09:58	03/26/21 09:58
30411349031	SPLP-3(0-0.5) Leachate	Water	03/26/21 10:05	03/26/21 10:05
30411349032	SPLP-4(0-0.5) Leachate	Water	03/26/21 10:29	03/26/21 10:29
30411349033	SPLP-5(0-0.5) Leachate	Water	03/26/21 10:30	03/26/21 10:30
30411349034	SPLP-6(0-0.5) Leachate	Water	03/26/21 10:44	03/26/21 10:44
30411349035	SPLP-7(0-0.5) Leachate	Water	03/27/21 07:17	03/27/21 07:17

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 6010D
Description: 6010D MET ICP
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
17 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 435207

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.
- DUP (Lab ID: 2101119)
  - Arsenic

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 6010D
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
7 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 8270E By SIM
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
11 samples were analyzed for EPA 8270E By SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 434879

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.
- Equipment Blank 3 (Lab ID: 30405879016)
  - Terphenyl-d14 (S)

QC Batch: 435762

S0: Surrogate recovery outside laboratory control limits.
- SSS-08 (0'-2')MS(SPLP) (Lab ID: 30405879028)
  - Terphenyl-d14 (S)

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.
- MS (Lab ID: 2103685)
  - Terphenyl-d14 (S)
- MS (Lab ID: 2103689)
  - Terphenyl-d14 (S)
- SSS-08 (0'-2')MS(SPLP) (Lab ID: 30405879028)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 8270E By SIM
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 435762

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 2103682)
  - Benzo(a)anthracene
  - Benzo(a)pyrene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 434879

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 435762

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30405475009,30405475020,30405879010,30405879026

R1: RPD value was outside control limits.

- MSD (Lab ID: 2103684)
  - Anthracene
  - Fluoranthene
  - Phenanthrene
  - Pyrene
- MSD (Lab ID: 2103690)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Fluoranthene
  - Fluorene
  - Naphthalene
  - Phenanthrene
  - Pyrene

Additional Comments:

Analyte Comments

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 3 (Lab ID: 30405879016)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 3 (Lab ID: 30405879016)
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Equipment Blank 4 (Lab ID: 30405879032)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 3 (Lab ID: 30405879017)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
- Field Blank 3 (Lab ID: 30405879017)
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 4 (Lab ID: 30405879033)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- Equipment Blank 3 (Lab ID: 30405879016)
  - Terphenyl-d14 (S)

QC Batch: 435762

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- SSB-05(0'-2')(SPLP) (Lab ID: 30405879010)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
- SSB-05(0'-2')MS(SPLP) (Lab ID: 30405879012)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
- SSB-05(0'-2')MSD(SPLP) (Lab ID: 30405879014)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
- SSS-02(0'-2')(SPLP) (Lab ID: 30405879002)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
- SSS-08 (0'-2')(SPLP) (Lab ID: 30405879026)
  - Benzo(a)anthracene
  - Benzo(a)pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 8270E By SIM
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 435762

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.
- SSS-08 (0'-2')MS(SPLP) (Lab ID: 30405879028)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Terphenyl-d14 (S)
- SSS-08 (0'-2')MSD(SPLP) (Lab ID: 30405879030)
  - Benzo(a)anthracene
  - Benzo(a)pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
13 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 436066

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- SSB-04(2'-8') (Lab ID: 30405879008)
  - 2-Fluorobiphenyl (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.
- SSB-02(2'-8') (Lab ID: 30405879003)
  - 2-Fluorobiphenyl (S)
- SSB-03(2'-8') (Lab ID: 30405879005)
  - 2-Fluorobiphenyl (S)
- SSB-03(2'-8')DUP (Lab ID: 30405879006)
  - 2-Fluorobiphenyl (S)
- SSB-06 (2'-8') (Lab ID: 30405879021)
  - 2-Fluorobiphenyl (S)
- SSS-04(0'-2') (Lab ID: 30405879007)
  - 2-Fluorobiphenyl (S)
- SSS-06 (0'-2') (Lab ID: 30405879020)
  - 2-Fluorobiphenyl (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 8270E by SIM
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: March 03, 2021

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below

QC Batch: 436066

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30405879003

R1: RPD value was outside control limits.

- MSD (Lab ID: 2104735)
  - Phenanthrene

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8260B**
Description: 8260B MSV 5035 Low Level
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
13 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 435644

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments

QC Batch: 435644

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SSB-02(2'-8') (Lab ID: 30405879003)
  - Naphthalene
- SSB-03(2'-8') (Lab ID: 30405879005)
  - Naphthalene

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 8260B
Description: 8260B MSV 5035 Low Level
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 435644

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume

- SSB-03(2'-8')DUP (Lab ID: 30405879006)
  - Naphthalene
- SSB-04(2'-8') (Lab ID: 30405879008)
  - Naphthalene
- SSB-05(2'-8') (Lab ID: 30405879015)
  - Naphthalene
- SSB-06 (2'-8') (Lab ID: 30405879021)
  - Naphthalene
- SSB-07 (2'-8') (Lab ID: 30405879023)
  - Naphthalene
- SSB-07 (2'-8')DUP (Lab ID: 30405879024)
  - Naphthalene
- SSB-08 (2'-8') (Lab ID: 30405879031)
  - Naphthalene
- SSS-03(0'-2') (Lab ID: 30405879004)
  - Naphthalene
- SSS-04(0'-2') (Lab ID: 30405879007)
  - Naphthalene
- SSS-06 (0'-2') (Lab ID: 30405879020)
  - Naphthalene
- SSS-07 (0'-2') (Lab ID: 30405879022)
  - Naphthalene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 8260B
Description: 8260B MSV SPLP
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
7 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: EPA 8260C
Description: 8260C MSV
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
8 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: EPA 6010D
Description: 6010D MET ICP
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
7 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 435208

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30405885001

R1: RPD value was outside control limits.

- MSD (Lab ID: 2101127)
  - Arsenic

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
2 samples were analyzed for EPA 8270E By SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 434879

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 5 (Lab ID: 30405885007)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: EPA 8270E By SIM
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 5 (Lab ID: 30405885007)
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 5 (Lab ID: 30405885006)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
5 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 436193

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- BLANK (Lab ID: 2105210)
  - 2-Fluorobiphenyl (S)
- MS (Lab ID: 2105212)
  - 2-Fluorobiphenyl (S)
- MSD (Lab ID: 2105213)
  - 2-Fluorobiphenyl (S)
- SSB-01 (2'-8') (Lab ID: 30405885004)
  - 2-Fluorobiphenyl (S)
- SSB-01 (2'-8') Dup (Lab ID: 30405885005)
  - 2-Fluorobiphenyl (S)
- SSS-01 (0'-2') MS (Lab ID: 30405885002)
  - 2-Fluorobiphenyl (S)
- SSS-01 (0'-2') MSD (Lab ID: 30405885003)
  - 2-Fluorobiphenyl (S)

Method Blank: .
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: March 03, 2021

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: EPA 8260B
Description: 8260B MSV 5035 Low Level
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
5 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 435321

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30405885001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2101518)
  - Naphthalene
- MSD (Lab ID: 2101519)
  - Naphthalene

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8260C**
Description: 8260C MSV
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
3 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
18 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
7 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.
- QC Batch: 440718

The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.
- QC Batch: 440936

The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.
- QC Batch: 440718

The CCB for Be and Mn is greater than the MDL for 7364343-001 and 005 for SPLP metals.
- QC Batch: 440936

The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.
- QC Batch: 440718

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 6010D
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Batch Comments:

The ICB and CCB for Sr are greater than the MDL for 30412191-002 and 005 for SPLP metals.
- QC Batch: 440936

Analyte Comments:

QC Batch: 440669

3c: The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.
- BLANK (Lab ID: 2127416)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127418)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127421)
  - Arsenic
  - Lead
- LB (Lab ID: 2126160)
  - Arsenic
  - Lead
- LB (Lab ID: 2126190)
  - Arsenic
  - Lead
- LCS (Lab ID: 2127417)
  - Arsenic
  - Lead
- MS (Lab ID: 2127419)
  - Arsenic
  - Lead
- MS (Lab ID: 2127422)
  - Arsenic
  - Lead
- MSD (Lab ID: 2127420)
  - Arsenic
  - Lead
- SPLP-1 (0-0.5) (Lab ID: 30411349003)
  - Arsenic
  - Lead
- SPLP-2 (0-0.5) (Lab ID: 30411349006)
  - Arsenic
  - Lead
- SPLP-3 (0-0.5) (Lab ID: 30411349012)
  - Arsenic
  - Lead
- SPLP-4 (0-0.5) (Lab ID: 30411349014)
  - Arsenic
  - Lead

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 6010D
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440669

3c: The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.

- SPLP-5- (0-0.5) (Lab ID: 30411349017)
  - Arsenic
  - Lead
- SPLP-6 (0-0.5) (Lab ID: 30411349019)
  - Arsenic
  - Lead

5c: The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.

- BLANK (Lab ID: 2127416)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127418)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127421)
  - Arsenic
  - Lead
- LB (Lab ID: 2126160)
  - Arsenic
  - Lead
- LB (Lab ID: 2126190)
  - Arsenic
  - Lead
- LCS (Lab ID: 2127417)
  - Arsenic
  - Lead
- MS (Lab ID: 2127419)
  - Arsenic
  - Lead
- MS (Lab ID: 2127422)
  - Arsenic
  - Lead
- MSD (Lab ID: 2127420)
  - Arsenic
  - Lead
- SPLP-1 (0-0.5) (Lab ID: 30411349003)
  - Arsenic
  - Lead
- SPLP-2 (0-0.5) (Lab ID: 30411349006)
  - Arsenic
  - Lead
- SPLP-3 (0-0.5) (Lab ID: 30411349012)
  - Arsenic

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 6010D
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440669

5c: The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014 017 and 019 for SPLP metals.

- SPLP-3 (0-0.5) (Lab ID: 30411349012)
  - Lead
- SPLP-4 (0-0.5) (Lab ID: 30411349014)
  - Arsenic
  - Lead
- SPLP-5- (0-0.5) (Lab ID: 30411349017)
  - Arsenic
  - Lead
- SPLP-6 (0-0.5) (Lab ID: 30411349019)
  - Arsenic
  - Lead

7c: The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.

- BLANK (Lab ID: 2127416)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127418)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127421)
  - Arsenic
  - Lead
- LB (Lab ID: 2126160)
  - Arsenic
  - Lead
- LB (Lab ID: 2126190)
  - Arsenic
  - Lead
- LCS (Lab ID: 2127417)
  - Arsenic
  - Lead
- MS (Lab ID: 2127419)
  - Arsenic
  - Lead
- MS (Lab ID: 2127422)
  - Arsenic
  - Lead
- MSD (Lab ID: 2127420)
  - Arsenic
  - Lead
- SPLP-1 (0-0.5) (Lab ID: 30411349003)
  - Arsenic
  - Lead

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 6010D
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440669

7c: The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.

- SPLP-2 (0-0.5) (Lab ID: 30411349006)
  - Arsenic
  - Lead
- SPLP-3 (0-0.5) (Lab ID: 30411349012)
  - Arsenic
  - Lead
- SPLP-4 (0-0.5) (Lab ID: 30411349014)
  - Arsenic
  - Lead
- SPLP-5- (0-0.5) (Lab ID: 30411349017)
  - Arsenic
  - Lead
- SPLP-6 (0-0.5) (Lab ID: 30411349019)
  - Arsenic
  - Lead

QC Batch: 440834

4c: The CCB for Be and Mn is greater than the MDL for 7364343-001 and 005 for SPLP metals.

- BLANK (Lab ID: 2128138)
  - Arsenic
  - Lead
- DUP (Lab ID: 2128140)
  - Arsenic
  - Lead
- LB (Lab ID: 2127082)
  - Arsenic
  - Lead
- LB (Lab ID: 2127083)
  - Arsenic
  - Lead
- LCS (Lab ID: 2128139)
  - Arsenic
  - Lead
- MS (Lab ID: 2128141)
  - Arsenic
  - Lead
- MSD (Lab ID: 2128142)
  - Arsenic
  - Lead
- SPLP-7 (0-0.5) (Lab ID: 30411349021)
  - Arsenic
  - Lead

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 6010D
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440834

6c: The ICB and CCB for Sr are greater than the MDL for 30412191-002 and 005 for SPLP metals.
- BLANK (Lab ID: 2128138)
  - Arsenic
  - Lead
- DUP (Lab ID: 2128140)
  - Arsenic
  - Lead
- LB (Lab ID: 2127082)
  - Arsenic
  - Lead
- LB (Lab ID: 2127083)
  - Arsenic
  - Lead
- LCS (Lab ID: 2128139)
  - Arsenic
  - Lead
- MS (Lab ID: 2128141)
  - Arsenic
  - Lead
- MSD (Lab ID: 2128142)
  - Arsenic
  - Lead
- SPLP-7 (0-0.5) (Lab ID: 30411349021)
  - Arsenic
  - Lead

8c: The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.
- BLANK (Lab ID: 2128138)
  - Arsenic
  - Lead
- DUP (Lab ID: 2128140)
  - Arsenic
  - Lead
- LB (Lab ID: 2127082)
  - Arsenic
  - Lead
- LB (Lab ID: 2127083)
  - Arsenic
  - Lead
- LCS (Lab ID: 2128139)
  - Arsenic
  - Lead
- MS (Lab ID: 2128141)
  - Arsenic

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440834

8c: The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.

- MS (Lab ID: 2128141)
  - Lead
- MSD (Lab ID: 2128142)
  - Arsenic
  - Lead
- SPLP-7 (0-0.5) (Lab ID: 30411349021)
  - Arsenic
  - Lead

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 8270E By SIM
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
11 samples were analyzed for EPA 8270E By SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 439827

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 439827

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 1 (Lab ID: 30411349023)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 439827

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 1 (Lab ID: 30411349023)
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Equipment Blank 2 (Lab ID: 30411349025)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 1 (Lab ID: 30411349022)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 439827

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Field Blank 1 (Lab ID: 30411349022)
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 2 (Lab ID: 30411349024)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
14 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 439851

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- BLANK (Lab ID: 2123715)
  - 2-Fluorobiphenyl (S)
- LCS (Lab ID: 2123716)
  - 2-Fluorobiphenyl (S)
- MSD (Lab ID: 2123718)
  - 2-Fluorobiphenyl (S)
- SED-1-U (0-0.5) (Lab ID: 30411349001)
  - 2-Fluorobiphenyl (S)
- SED-2-D (0-0.5) Dup (Lab ID: 30411349009)
  - 2-Fluorobiphenyl (S)
- SED-2-D (0-0.5) MSD (Lab ID: 30411349008)
  - 2-Fluorobiphenyl (S)
- SED-5-D (0-0.5) (Lab ID: 30411349016)
  - 2-Fluorobiphenyl (S)
- SED-5-U (0-0.5) (Lab ID: 30411349015)
  - 2-Fluorobiphenyl (S)
- SED-6-U (0-0.5) (Lab ID: 30411349018)
  - 2-Fluorobiphenyl (S)
- SED-7-U (0-0.5) (Lab ID: 30411349020)
  - 2-Fluorobiphenyl (S)

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: April 02, 2021

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 439851

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30411349005

R1: RPD value was outside control limits.

- MSD (Lab ID: 2123718)
  - Benzo(b)fluoranthene
  - Chrysene
  - Fluoranthene
  - Pyrene

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 8260C
Description: 8260C MSV 5035 Low Level
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
14 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 8260C
Description: 8260C MSV SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
7 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: EPA 8260C
Description: 8260C MSV
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
7 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or

WO# : 30405475

30405475

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: FOC River Trail
Customer Project Name/Number: FOC River Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Josea Newman / Kevin Boston	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Business Day Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

** Preservative Types: (1) nitric acid, (2) [illegible], (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), TIssue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	Analyses: VOCs Naphthalene	PAHs, Metals, SVOCs	SPLP Leachate	TRIP Blank	Lab Profile/Line:
SSS-15 (0'-2')	SL	G	2/8/21	1605				5	✓	✓			001
SSB-15 (2'-8')	SL	G	2/8/21	1610				5	✓	✓			002
SSS-14 (0'-2')	SL	G	2/8/21	1515				5	✓	✓			003
SSB-14 (2'-8')	SL	G	2/8/21	1520				5	✓	✓			004
SSB-14 (2'-8') Dup	SL	G	2/8/21	1520				5	✓	✓			005
SSS-13 (0'-2')	SL	G	2/8/21	1500				5	✓	✓			006
SSB-13 (2'-8')	SL	G	2/8/21	1505				5	✓	✓			007 2/10 RM
SSS-12 (0'-2')	SL	G	2/8/21	1330				6	✓	✓	✓		008 MS, MSD
SSS-12 (0'-2') MS	SL	G	2/8/21	1400				6	✓	✓	✓		009 010, 011
SSS-12 (0'-2') MSD	SL	G	2/8/21	1400				6	✓	✓	✓		010 012, 013

Lab Profile/Line: FOC River Trail 60589127

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	(Y) N NA
Collector Signature Present	(Y) N NA
Bottles Intact	(Y) N NA
Correct Bottles	(Y) N NA
Sufficient Volume	(Y) N NA
Samples Received on Ice	(Y) N NA
VOA - Headspace Acceptable	(Y) N NA
USDA Regulated Soils	Y N (NA)
Samples in Holding Time	(Y) N NA
Residual Chlorine Present	Y (N) NA
Cl Strips:	
Sample pH Acceptable	(Y) N NA
pH Strips: 100101	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

RM 2-10-21

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: ICE

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y N (N/A)

Lab Tracking #: 2623178

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#:
Cooler 1 Temp Upon Receipt: 5.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 5.2 oC
Comments:
RM 2-10-21

Trip Blank Received: (Y) N NA
(HCl) MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: of:

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) (AECOM)	2/10/21 0745		
Relinquished by/Company: (Signature)			11:50
Relinquished by/Company: (Signature)		Pace	2-10-21

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

30405475

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: FOC River Trail
Customer Project Name/Number: FOC River Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Nouna / Kevin Booten	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Day Business Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs	PAH's, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Profile/Line:
SSB-12 (2'-8')	SL	G	2/8/21	1420				5	✓	✓			011
SSS-11 (0'-2')	SL	G	2/8/21	1715				5	✓	✓			012
SSB-11 (2'-8')	SL	G	2/8/21	1720				5	✓	✓			013
Equipment Blank 1	WT	G	2/8/21	1700				2		✓			014
Field Blank 1	WT	G	2/8/21	1640				2		✓			015
SSS-10 (0'-2')	SL	G	2/9/21	1330				6	✓	✓	✓		016,019,020
SSS-10 (0'-2') MS	SL	G	2/9/21	1350				6	✓	✓	✓		021,022
SSS-10 (0'-2') MSD	SL	G	2/9/21	1350				6	✓	✓	✓		023,024
Equipment Blank 2	WT	G	2/9/21	1300				5	✓	✓			025
SSB-10 (2'-8')	SL	G	2/9/21	1420				5	✓	✓			026

See Page 1

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2623179

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: _____oC
Cooler 1 Therm Corr. Factor: _____oC
Cooler 1 Corrected Temp: _____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
(AECOM)	2/10/21 0745		2/10/21 0745
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	2/10/21 1150	Pace	2-10-21 1150
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

#_30405475

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Ghost Trail
Customer Project Name/Number: FOC River Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Nunn/Kevin Boone	Purchase Order #: Quote #0007 1691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 day Business Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs Naphthalene	PAHs, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Sample # / Comments
SSS-9 (0-2)	SL	G	2/9/21	1640				5	V	V			021 027
SSS-9 (0-2) Dup	SL	G	2/9/21	1640				5	V	V			022 028 Seepage
SSB-9 (2-8)	SL	G	2/9/21	1650				5	V	V			023 029
Field Blank 2	WT	G	2/9/21	1310				5	V	V			024 030 1
Trip Blank 1	WT	Lab	Lab	Lab				2				V	025 031

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

JSN 2/10/21

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
	Packing Material Used:	Lab Tracking #: 2623180
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) (AECOM)	Date/Time: 2/10/21 0745	Received by/Company: (Signature)	Date/Time: 2/10 8:40	MTJL LAB USE ONLY
Relinquished by/Company: (Signature)	Date/Time: 2/10 11:50	Received by/Company: (Signature) Pace	Date/Time: 2-10-21 1150	Table #: Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or

WO# : 30405879

30405879

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Cheat River Trail
Customer Project Name/Number: FOC River Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Neiman / Kwin Boston	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Business Day Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) [illegible], (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs Naphthalene	PAHs, Metals, SVOCs	SPLP Leachate	Trip Blank							Lab Sample # / Comments
SSS-02 (0'-2')	SL	G	2/10/21	1435				6	✓	✓	✓								001, 002
SSB-02 (2'-8')	SL	G	2/10/21	1445				5	✓	✓									003
SSS-03 (0'-2')	SL	G	2/10/21	1300				5	✓	✓									004
SSB-03 (2'-8')	SL	G	2/10/21	1310				5	✓	✓									005
SSB-03 (2'-8') Dup	SL	G	2/10/21	1310				5	✓	✓									006
SSS-04 (0'-2')	SL	G	2/10/21	1550				5	✓	✓									007
SSB-04 (2'-8')	SL	G	2/10/21	1600				5	✓	✓									008
SSS-05 (0'-2')	SL	G	2/10/21	1120				6	✓	✓	✓								009, 010
SSS-05 (0'-2') MS	SL	G	2/10/21	1150				6	✓	✓	✓								011, 012
SSS-05 (0'-2') MSD	SL	G	2/10/21	1150				6	✓	✓	✓								013, 014

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	(NA)
Custody Signatures Present	Y	(NA)
Collector Signature Present	(Y)	N NA
Bottles Intact	(Y)	N NA
Correct Bottles	(Y)	N NA
Sufficient Volume	(Y)	N NA
Samples Received on Ice	(Y)	N NA
VOA - Headspace Acceptable	(Y)	N NA
USDA Regulated Soils	Y	N (NA)
Samples in Holding Time	(Y)	N NA
Residual Chlorine Present	Y	(N) NA
Cl Strips:		
Sample pH Acceptable	(Y)	N NA
pH Strips: 10 01 10 1		
Sulfide Present	Y	N NA
Lead Acetate Strips:		

LAB USE ONLY:
Lab Sample # / Comments: OSM OSM

Customer Remarks / Special Conditions / Possible Hazards: Reference AECOM Tables 4-3 and 4-4 for SPLP and other analyses remarks

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ice, Bubble Bags, Terracore kits

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2590301

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 11
Cooler 1 Temp Upon Receipt: 4.6 oC
Cooler 1 Therm Corr. Factor: +0.0 oC
Cooler 1 Corrected Temp: 4.6 oC
Comments: OSM 2/12/21

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
(AECOM)	2/12/21 0750		2/12/21 810
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	2/12/21 1240		2/12/21 1240
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJ LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: _____ of: _____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

 # 30405879

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Cheat River Trail
Customer Project Name/Number: FOL River Trail 60589127	State: WV / County/City: Preston / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Nieman / Kevin Bocia	Purchase Order #: / Quote #: 00071691 / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Business Day / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: ____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC's Naphthalene	PAHs, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Profile/Line:
SSB-05 (2'-8')	SL	G	2/10/21	1205				5	✓	✓			015
Equipment Blank 3	WT	G	2/10/21	1245				5	✓	✓			016
Field Blank 3	WT	G	2/10/21	1230				5	✓	✓			017
Trip Blank 2	WT	Lab	Lab	Lab				2				X	018
Trip Blank 3	WT	Lab	Lab	Lab				2				X	019
SSS-06 (0'-2')	SL	G	2/11/21	1130				5	✓	✓			020
SSB-06 (2'-8')	SL	G	2/11/21	1140				5	✓	✓			021
SSS-07 (0'-2')	SL	G	2/11/21	1305				5	✓	✓			022
SSB-07 (2'-8')	SL	G	2/11/21	1320				5	✓	✓			023
SSB-07 (2'-8') Dup	SL	G	2/11/21	1320				5	✓	✓			024

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: ____	
Sample pH Acceptable	Y N NA
pH Strips: ____	
Sulfide Present	Y N NA
Lead Acetate Strips: ____	

LAB USE ONLY:
Lab Sample # / Comments:
see page 1

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2590302

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
(AECOM)	2/12/21 0750		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 2/12/21 0940
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum.
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

 # 30405879

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Cheat River Trail
Customer Project Name/Number: FoC River Trail	State: WV / County/City: Preston / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Newman / Kevin Beaver	Purchase Order #: / Quote #: 00071691 / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Business Days / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Preservative Type **	Analyses: VOCs, Naphalene	Analyses: PAH's, Metals, SVOCs	Analyses: SPLP Leachate	Analyses: Trip Blank	Lab Profile/Line: Lab # / Comments
SSS-08 (0'-2')	SL	6	2/11/21	1430				6		✓	✓	✓		025,026
SSS-08 (0'-2') MS	SL	6	2/11/21	1450				6		✓	✓	✓		027,028
SSS-08 (0'-2') MSD	SL	6	2/11/21	1450				6		✓	✓	✓		029,030
SSB-08 (2'-8')	SL	6	2/11/21	1505				5		✓	✓			031
Equipment Blank 4	WT	G	2/11/21	1250				5		✓	✓			032
Field Blank 4	WT	G	2/11/21	1230				5		✓	✓			033
Trip Blank 4	WT	Lab	Lab					2					✓	034
Trip Blank 5	WT	Lab	Lab					2					✓	035

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY: Lab Sample # / Comments: JSM JSM

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2590303

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
(AECOM)	2/12/21 0750		2/12/21 810
	2/12/21 1240		2/12/21 1340

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label H...

WO# : 30405885

30405885

ALL

Container Preserv...

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Cheat River Trail
Customer Project Name/Number: Foc River Trail 60589127	State: WV / County/City: Preston / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Newman	Purchase Order #: / Quote #: 00071691 / DW PWS ID #: / DW Location Code:
Collected By (signature): [signature]	Turnaround Date Required: Standard 10 Business Day / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: ____

** Preservative Types: (1) nitric acid, ... hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA RCD
pH Strips: Lacha	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments: [initials] / RDC

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	VOCs Napthalene	PAH's, Metals, SVOCs	Trip Blank							Lab Sample # / Comments
SSS-01 (0'-2')	SL	G	2/12/21	1050				5	✓	✓								001
SSS-01 (0'-2') MS	SL	G	2/12/21	1120				5	✓	✓								002
SSS-01 (0'-2') MSD	SL	G	2/12/21	1120				5	✓	✓								003
SSB-01 (2'-8')	SL	G	2/12/21	1135				5	✓	✓								004
SSB-01 (2'-8') Dup	SL	G	2/12/21	1135				5	✓	✓								005
Field Blank 5	WT	G	2/12/21	1015				5	✓	✓								006
Equipment Blank 5	WT	G	2/12/21	1005				5	✓	✓								007
Trip Blank 6	WT	Lab	Lab	Lab				2			✓							008

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Ice

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2590304

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 5
Cooler 1 Temp Upon Receipt: 1.4 oC 4.5
Cooler 1 Therm Corr. Factor: -0.2 oC 0
Cooler 1 Corrected Temp: 1.2 oC 4.5
Comments: [initials] 2-12-21

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] (AECOM)	2/12/21 1310	[signature]	2/12/21 13:58
[signature]	2/12/21 1100	[signature]	2/12/21 1450
[signature]	2/12/21 1730	[signature]	2-12-21 1730

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY

WO#: 30411349

30411349

Container Preservative Type

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Company: AECOM

Address: 1505 Beech St. Kenova, WV

Report To: Matthew Watson

Copy To:

Customer Project Name/Number: Cheat Rail Trail 60589127

Billing Information:

Email To: Matthew.Watson@AECOM.com

Site Collection Info/Address: FOC Rail Trail

State: WV / County/City: Preston

Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Jason Newman / Matthew Watson

Purchase Order #:
Quote #: 00071691

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required: Standard

Immediately Packed on Ice: [✓] Yes [ ] No

Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips: 1DD0401	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments: MD/JLB

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns	VOCs Napthalene	PAH's, Metals, SVOCs	SPLP Leachate	Trip Blank							Lab Sample # / Comments
SED-1-U(0-0.5)	SL	G	3/16/21	1610				5	X	X									001
SED-1-D(0-0.5)	SL	G	3/16/21	1610				5	X	X									002
SPLP-1(0-0.5)	SL	G	3/16/21	1610				1			X								003
SED-2-U(0-0.5)	SL	G	3/17/21	0930				5	X	X									004
SED-2-D(0-0.5)	SL	G	3/17/21	0930				5	X	X									005
SPLP-2(0-0.5)	SL	G	3/17/21	0930				1			X								006
SED-2-D(0-0.5)MS	SL	G	3/17/21	0940				5	X	X									007
SED-2-D(0-0.5)MSD	SL	G	3/17/21	0945				5	X	X									008
SED-2-D(0-0.5)Dup	SL	G	3/17/21	0930				5	X	X									009
SED-3-U(0-0.5)	SL	G	3/17/21	1055				5	X	X									010

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Ice

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 7849 2072 9246 2623890

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 11
Cooler 1 Temp Upon Receipt: 4.7 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 4.7 oC
Comments: MD 3/19/21

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
AECOM	3/18/21 1710	MD	3/19/21 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 3

Page 84 of 83

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

30411349

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Roc Rail Trail
Customer Project Name/Number: Cheat Rail Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Neuman / Matthew Watson	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (If applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs, Naphthalene	PAH's, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Sample # / Comments
SED-3-D (0-0.5)	SL	G	3/17/21	1050				5	X	X			011
SPLP-3 (0-0.5)	SL	G	3/17/21	1100				1			X		012
SED-4-U (0-0.5)	SL	G	3/17/21	1155				5	X	X			013
SPLP-4 (0-0.5)	SL	G	3/17/21	1200				1			X		014
SED-5-U (0-0.5)	SL	G	3/17/21	1335				5	X	X			015
SED-5-D (0-0.5)	SL	G	3/17/21	1336				5	X	X			016
SPLP-5 (0-0.5)	SL	G	3/17/21	1340				1			X		017
SED-6-U (0-0.5)	SL	G	3/17/21	1600				5	X	X			018
SPLP-6 (0-0.5)	SL	G	3/17/21	1605				1			X		019
SED-7-U (0-0.5)	SL	G	3/17/21	1755				5	X	X			020

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments: SEE PAGE ONE

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2623891

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature) AECOM	Date/Time: 3/18/21 1710	Received by/Company: (Signature)	Date/Time: 3/19/21 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 3

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Numb
MTJL Log-in Number Here

 # 30411349

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: FOC Rail Trail
Customer Project Name/Number: Cheat Rail Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Neuman / Matthew Watson	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (If applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container Preservative Type **	VOCs, Naphthalene	PAHs, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Sample # / Comments
SPLP-7 (0-0.5)	SL	G	3/17/21	1800				1				X		021
Field Blank 1	WT	G	3/16/21	1436				5		X	X			022
Equipment Blank 1	WT	G	3/17/21	0900				5		X	X			023
Field Blank 2	WT	G	3/17/21	1705				5		X	X			024
Equipment Blank 2	WT	G	3/17/21	1700				5		X	X			025
Trip Blank 1	WT	Lab	Lab	Lab				2					X	026
Trip Blank 2	WT	Lab	Lab	Lab				2					X	027
Trip Blank 3	WT	Lab	Lab	Lab				2					X	028

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:
See page one

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#:
Cooler 1 Temp Upon Receipt: oC
Cooler 1 Therm Corr. Factor: oC
Cooler 1 Corrected Temp: oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
AECOM	3/18/21 1710		3/19/21 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of: 3

Data Qualifying Codes

Two types of data qualifying codes or flags are applied in the course of the data review. The data validation flags indicate data that are not usable for decision-making, more than normally biased and/or variable, or not representative of field conditions. These codes and their definitions are presented below in the hierarchy stipulated in the USEPA Contract Laboratory Program National Functional Guidelines for Organic (August 2014) Data Review and the USEPA Region III Guidelines for Organic (September 1994) for blank qualifications only.

Data Validation Flags

Flag	Interpretation
R	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
B	The analyte was analyzed for, but not detected at a level greater than or equal to the level of the adjusted Detection Limit (DL) for sample and method.
J+	Reported value may not be accurate or precise, but the result may be biased high.
J-	Reported value may not be accurate or precise, but the result may be biased low.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the Limit of Detection (LOD).
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected at a level greater than or equal to the adjusted DL. However, the reported adjusted DL is approximate and may be inaccurate or imprecise.
C	This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by gas Chromatograph/Mass Spectrometer (GC/MS)
X	This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.

The other type of code used by AECOM is a “Reason Code”. The reason code indicates the type of quality control failure that led to the application of the data validation flag.

Reason Codes

GC/MS Organics		GC and HPLC Organics		Inorganics and Conventionals	
Code	Interpretation	Code	Interpretation	Code	Interpretation
a	Incorrect or incomplete analytical sequence	a	Incorrect or incomplete analytical sequence	a	Incorrect or incomplete analytical sequence
b	Bubble found in vial >6mm	b	Instrument performance failure	b	Laboratory duplicate imprecision
c	Calibration failure; poor or unstable response	c	Calibration failure; poor or unstable response	c	Calibration failure
d	MS/MSD imprecision	d	MS/MSD imprecision	d	MS/MSD imprecision
e	LCSD imprecision	e	LCSD imprecision	e	LCSD imprecision
f	Field duplicate imprecision	f	Field duplicate imprecision	f	Field duplicate imprecision
g	Tuning failure or poor mass spec performance	g	Dual column confirmation imprecision	g	Duel isotope imprecision
h	Holding time violation	h	Holding time violation	h	Holding time violation
i	Internal standard failure	i	Internal standard failure	k	Cooler receipt temperature exceeds limits
k	Cooler receipt temperature exceeds limits	k	Cooler receipt temperature exceeds limits	l	LCS recovery failure
l	LCS recovery failure	l	LCS recovery failure	m	MS/MSD recovery failure
m	MS/MSD recovery failure	m	MS/MSD recovery failure	n	ICS failure
n	Improper sample preservation	p	Poor chromatography	o	Calibration blank contamination
p	Poor chromatography	q	Concentration exceeded the linear range	q	Concentration exceeded the linear range
q	Concentration exceeded the linear range	r	Linearity failure in initial calibration	r	Linearity failure in calibration or MSA
r	Linearity failure in initial calibration	s	Surrogate failure	s	Serial dilution failure
s	Surrogate failure	t	Blender blank contamination	t	Carboy Lot detection
t	TIC	u	No confirmation column	u	BOD minimum depletion did not exceed 2mg/L
w	Identification criteria failure	w	Retention time failure	v	Post-digestion spike failure
x	Field blank contamination	x	Field blank contamination	w	CRDL Standard Failure
y	Trip blank contamination	z	Method blank contamination	x	Field blank contamination
z	Method blank contamination			z	Preparation/Method blank contamination

Page Intentionally Left Blank

Appendix D
Analytical Data Package

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 03, 2021

Matthew Watson
AECOM
901 W. DuPont Ave.
Belle, WV 25015

RE: Project: FOC River Trail 60589127
Pace Project No.: 30405475

Dear Matthew Watson:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Alexis E. Ozoroski
alexis.ozoroski@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Wanda Davis, AECOM

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30405475001	**SSS-15(0'-2')**	Solid	02/08/21 16:05	02/10/21 11:50
30405475002	**SSB-15(2'-8')**	Solid	02/08/21 16:10	02/10/21 11:50
30405475003	**SSS-14(0'-2')**	Solid	02/08/21 15:15	02/10/21 11:50
30405475004	**SSB-14(2'-8')**	Solid	02/08/21 15:20	02/10/21 11:50
30405475005	**SSB-14(2'-8') Dup**	Solid	02/08/21 15:20	02/10/21 11:50
30405475006	**SSS-13(0'-2')**	Solid	02/08/21 15:00	02/10/21 11:50
30405475007	**SSB-13(2'-8')**	Solid	02/08/21 15:05	02/10/21 11:50
30405475008	**SSS-12(0'-2')**	Solid	02/08/21 13:30	02/10/21 11:50
30405475009	**SSS-12(0'-2')(SPLP)**	Water	02/17/21 09:21	02/17/21 09:21
30405475010	**SSS-12(0'-2')MS**	Solid	02/08/21 14:00	02/10/21 11:50
30405475011	**SSS-12(0'-2')MS(SPLP)**	Water	02/17/21 09:21	02/17/21 09:21
30405475012	**SSS-12(0'-2')MSD**	Solid	02/08/21 14:00	02/10/21 11:50
30405475013	**SSS-12(0'-2')MSD(SPLP)**	Water	02/17/21 09:21	02/17/21 09:21
30405475014	**SSB-12(2'-8')**	Solid	02/08/21 14:20	02/10/21 11:50
30405475015	**SSS-11(0'-2')**	Solid	02/08/21 17:15	02/10/21 11:50
30405475016	**SSB-11(2'-8')**	Solid	02/08/21 17:20	02/10/21 11:50
30405475017	**Equipment Blank 1**	Water	02/08/21 17:00	02/10/21 11:50
30405475018	**Field Blank 1**	Water	02/08/21 16:40	02/10/21 11:50
30405475019	**SSS-10 (0'-2')**	Solid	02/09/21 13:30	02/10/21 11:50
30405475020	**SSS-10 (0'-2')(SPLP)**	Water	02/17/21 13:29	02/17/21 13:29
30405475021	**SSS-10 (0'-2')MS**	Solid	02/09/21 13:50	02/10/21 11:50
30405475022	**SSS-10 (0'-2')MS(SPLP)**	Water	02/17/21 13:29	02/17/21 13:29
30405475023	**SSS-10 (0'-2')MSD**	Solid	02/09/21 13:50	02/10/21 11:50
30405475024	**SSS-10 (0'-2')MSD(SPLP)**	Water	02/17/21 13:29	02/17/21 13:29
30405475025	**Equipment Blank 2**	Water	02/09/21 13:00	02/10/21 11:50
30405475026	**SSB-10 (2'-8')**	Solid	02/09/21 14:20	02/10/21 11:50
30405475027	**SSS-9 (0-2)**	Solid	02/09/21 16:40	02/10/21 11:50
30405475028	**SSS-9 (0-2) Dup**	Solid	02/09/21 16:40	02/10/21 11:50
30405475029	**SSS-9 (2-8)**	Solid	02/09/21 16:50	02/10/21 11:50
30405475030	**Field Blank**	Water	02/09/21 16:50	02/10/21 11:50
30405475031	**Trip Blank 1**	Water	02/09/21 00:01	02/10/21 11:50

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30405475001	**SSS-15(0'-2')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475002	**SSB-15(2'-8')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475003	**SSS-14(0'-2')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475004	**SSB-14(2'-8')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475005	**SSB-14(2'-8') Dup**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475006	**SSS-13(0'-2')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475007	**SSB-13(2'-8')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475008	**SSS-12(0'-2')**	EPA 6010D	CTS	2
		EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475009	**SSS-12(0'-2')(SPLP)**	EPA 8270E By SIM	CF1	18
30405475010	**SSS-12(0'-2')MS**	EPA 6010D	CTS	2
		EPA 6010D	CTS	2

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475011	**SSS-12(0'-2')MS(SPLP)**	EPA 8270E By SIM	CF1	18
30405475012	**SSS-12(0'-2')MSD**	EPA 6010D	CTS	2
		EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475013	**SSS-12(0'-2')MSD(SPLP)**	EPA 8270E By SIM	CF1	18
30405475014	**SSB-12(2'-8')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475015	**SSS-11(0'-2')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475016	**SSB-11(2'-8')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475017	**Equipment Blank 1**	EPA 6010D	CTS	3
		EPA 8270E By SIM	CF1	18
30405475018	**Field Blank 1**	EPA 6010D	CTS	3
		EPA 8270E By SIM	CF1	18
30405475019	**SSS-10 (0'-2')**	EPA 6010D	CTS	2
		EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475020	**SSS-10 (0'-2')(SPLP)**	EPA 8270E By SIM	CF1	18
30405475021	**SSS-10 (0'-2')MS**	EPA 6010D	CTS	2
		EPA 6010D	CTS	2

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475022	**SSS-10 (0'-2')MS(SPLP)**	EPA 8270E By SIM	CF1	18
30405475023	**SSS-10 (0'-2')MSD**	EPA 6010D	CTS	2
		EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475024	**SSS-10 (0'-2')MSD(SPLP)**	EPA 8270E By SIM	CF1	18
30405475025	**Equipment Blank 2**	EPA 6010D	CTS	3
		EPA 8270E By SIM	CF1	18
		EPA 8260C	LEL	5
30405475026	**SSB-10 (2'-8')**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475027	**SSS-9 (0-2)**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475028	**SSS-9 (0-2) Dup**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475029	**SSS-9 (2-8)**	EPA 6010D	CTS	2
		EPA 8270E by SIM	CF1	18
		EPA 8260B	JEW	5
		ASTM D2974-87	BLM	1
30405475030	**Field Blank**	EPA 6010D	CTS	3
		EPA 8270E By SIM	CF1	18
		EPA 8260C	LEL	5
30405475031	**Trip Blank 1**	EPA 8260C	LEL	5

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-15(0'-2') **Lab ID: 30405475001** Collected: 02/08/21 16:05 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**10.2**	mg/kg	1.0	1	02/11/21 15:20	02/12/21 08:52	7440-38-2	MH
Lead	**23.4**	mg/kg	1.0	1	02/11/21 15:20	02/12/21 08:52	7439-92-1	D6,ML
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**84.0**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	83-32-9	
Acenaphthylene	**716**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	208-96-8	
Anthracene	**401**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	120-12-7	
Benzo(a)anthracene	**2140**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	56-55-3	
Benzo(a)pyrene	**1950**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	50-32-8	
Benzo(b)fluoranthene	**4000**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	205-99-2	
Benzo(g,h,i)perylene	**482**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	191-24-2	
Benzo(k)fluoranthene	**1330**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	207-08-9	
Chrysene	**2440**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	218-01-9	
Dibenz(a,h)anthracene	**290**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	53-70-3	
Fluoranthene	**4190**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	206-44-0	
Fluorene	**82.6**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	86-73-7	
Indeno(1,2,3-cd)pyrene	**550**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	193-39-5	
Naphthalene	**751**	ug/kg	7.6	1	02/19/21 09:47	02/22/21 13:34	91-20-3	
Phenanthrene	**1720**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	85-01-8	
Pyrene	**3560**	ug/kg	75.5	10	02/19/21 09:47	02/22/21 13:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	94	%.	37-88	1	02/19/21 09:47	02/22/21 13:34	321-60-8	2c,ST
Terphenyl-d14 (S)	85	%.	10-128	1	02/19/21 09:47	02/22/21 13:34	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	9.4	1	02/12/21 11:43	02/12/21 12:59	91-20-3	
Surrogates								
Toluene-d8 (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 12:59	2037-26-5	
4-Bromofluorobenzene (S)	111	%.	70-130	1	02/12/21 11:43	02/12/21 12:59	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1	02/12/21 11:43	02/12/21 12:59	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 12:59	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**12.6**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-15(2'-8') **Lab ID: 30405475002** Collected: 02/08/21 16:10 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**7.3**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:01	7440-38-2	
Lead	**41.0**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:01	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**215**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	83-32-9	
Acenaphthylene	**245**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	208-96-8	
Anthracene	**305**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	120-12-7	
Benzo(a)anthracene	**1170**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	56-55-3	
Benzo(a)pyrene	**1250**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	50-32-8	
Benzo(b)fluoranthene	**2510**	ug/kg	71.4	10	02/19/21 09:47	02/22/21 14:27	205-99-2	
Benzo(g,h,i)perylene	**359**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	191-24-2	
Benzo(k)fluoranthene	**720**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	207-08-9	
Chrysene	**1170**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	218-01-9	
Dibenz(a,h)anthracene	**194**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	53-70-3	
Fluoranthene	**1980**	ug/kg	71.4	10	02/19/21 09:47	02/22/21 14:27	206-44-0	
Fluorene	**269**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**388**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	193-39-5	
Naphthalene	**507**	ug/kg	7.1	1	02/19/21 09:47	02/22/21 14:09	91-20-3	
Phenanthrene	**1740**	ug/kg	71.4	10	02/19/21 09:47	02/22/21 14:27	85-01-8	
Pyrene	**1940**	ug/kg	71.4	10	02/19/21 09:47	02/22/21 14:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	91	%.	37-88	1	02/19/21 09:47	02/22/21 14:09	321-60-8	2c,ST
Terphenyl-d14 (S)	98	%.	10-128	1	02/19/21 09:47	02/22/21 14:09	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	10.5	1	02/12/21 11:43	02/12/21 13:25	91-20-3	
Surrogates								
Toluene-d8 (S)	108	%.	70-130	1	02/12/21 11:43	02/12/21 13:25	2037-26-5	
4-Bromofluorobenzene (S)	124	%.	70-130	1	02/12/21 11:43	02/12/21 13:25	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 13:25	17060-07-0	
Dibromofluoromethane (S)	109	%.	70-130	1	02/12/21 11:43	02/12/21 13:25	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**7.2**	%	0.10	1		02/11/21 18:07		D6

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-14(0'-2') **Lab ID: 30405475003** Collected: 02/08/21 15:15 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**8.2**	mg/kg	0.98	1	02/11/21 15:20	02/12/21 09:04	7440-38-2	
Lead	**15.2**	mg/kg	0.98	1	02/11/21 15:20	02/12/21 09:04	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	83-32-9	
Acenaphthylene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	208-96-8	
Anthracene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	120-12-7	
Benzo(a)anthracene	**16.9**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	56-55-3	
Benzo(a)pyrene	**15.6**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	50-32-8	
Benzo(b)fluoranthene	**36.1**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	205-99-2	
Benzo(g,h,i)perylene	**8.7**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	191-24-2	
Benzo(k)fluoranthene	**7.4**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	207-08-9	
Chrysene	**35.2**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	53-70-3	
Fluoranthene	**40.4**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	206-44-0	
Fluorene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	193-39-5	
Naphthalene	**8.2**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	91-20-3	
Phenanthrene	**77.2**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	85-01-8	
Pyrene	**34.2**	ug/kg	7.4	1	02/19/21 09:47	02/22/21 14:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	94	%.	37-88	1	02/19/21 09:47	02/22/21 14:44	321-60-8	2c,ST
Terphenyl-d14 (S)	107	%.	10-128	1	02/19/21 09:47	02/22/21 14:44	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**14.9**	ug/kg	8.2	1	02/12/21 11:43	02/12/21 13:51	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 13:51	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 13:51	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130	1	02/12/21 11:43	02/12/21 13:51	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 13:51	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**10.8**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-14(2'-8') **Lab ID: 30405475004** Collected: 02/08/21 15:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**10.2**	mg/kg	1.0	1	02/11/21 15:20	02/12/21 09:07	7440-38-2	
Lead	**21.4**	mg/kg	1.0	1	02/11/21 15:20	02/12/21 09:07	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**21.7**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	83-32-9	
Acenaphthylene	**35.3**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	208-96-8	
Anthracene	**47.7**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	120-12-7	
Benzo(a)anthracene	**151**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	56-55-3	
Benzo(a)pyrene	**158**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	50-32-8	
Benzo(b)fluoranthene	**364**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	205-99-2	
Benzo(g,h,i)perylene	**71.9**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	191-24-2	
Benzo(k)fluoranthene	**110**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	207-08-9	
Chrysene	**180**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	218-01-9	
Dibenz(a,h)anthracene	**28.7**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	53-70-3	
Fluoranthene	**245**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	206-44-0	
Fluorene	**20.4**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**73.0**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	193-39-5	
Naphthalene	**60.7**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	91-20-3	
Phenanthrene	**151**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	85-01-8	
Pyrene	**230**	ug/kg	7.8	1	02/19/21 09:47	02/22/21 15:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%.	37-88	1	02/19/21 09:47	02/22/21 15:02	321-60-8	2c
Terphenyl-d14 (S)	99	%.	10-128	1	02/19/21 09:47	02/22/21 15:02	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.1	1	02/12/21 11:43	02/12/21 14:17	91-20-3	
Surrogates								
Toluene-d8 (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 14:17	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 14:17	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	02/12/21 11:43	02/12/21 14:17	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 14:17	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**16.6**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-14(2'-8') Dup **Lab ID: 30405475005** Collected: 02/08/21 15:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**13.2**	mg/kg	1.2	1	02/11/21 15:20	02/12/21 09:10	7440-38-2	
Lead	**32.0**	mg/kg	1.2	1	02/11/21 15:20	02/12/21 09:10	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**25.6**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	83-32-9	
Acenaphthylene	**36.6**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	208-96-8	
Anthracene	**44.6**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	120-12-7	
Benzo(a)anthracene	**138**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	56-55-3	
Benzo(a)pyrene	**136**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	50-32-8	
Benzo(b)fluoranthene	**310**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	205-99-2	
Benzo(g,h,i)perylene	**59.3**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	191-24-2	
Benzo(k)fluoranthene	**102**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	207-08-9	
Chrysene	**181**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	218-01-9	
Dibenz(a,h)anthracene	**27.4**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	53-70-3	
Fluoranthene	**234**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	206-44-0	
Fluorene	**24.7**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**59.5**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	193-39-5	
Naphthalene	**100**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	91-20-3	
Phenanthrene	**221**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	85-01-8	
Pyrene	**204**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 15:20	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	93	%.	37-88	1	02/19/21 09:47	02/22/21 15:20	321-60-8	2c,ST
Terphenyl-d14 (S)	104	%.	10-128	1	02/19/21 09:47	02/22/21 15:20	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	5.4	1	02/12/21 11:43	02/12/21 14:42	91-20-3	
Surrogates								
Toluene-d8 (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 14:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 14:42	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130	1	02/12/21 11:43	02/12/21 14:42	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 14:42	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**16.6**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-13(0'-2') **Lab ID: 30405475006** Collected: 02/08/21 15:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**6.3**	mg/kg	1.2	1	02/11/21 15:20	02/12/21 09:13	7440-38-2	
Lead	**16.0**	mg/kg	1.2	1	02/11/21 15:20	02/12/21 09:13	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**164**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	83-32-9	
Acenaphthylene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	208-96-8	
Anthracene	**37.2**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	120-12-7	
Benzo(a)anthracene	**26.6**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	50-32-8	
Benzo(b)fluoranthene	**17.3**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	207-08-9	
Chrysene	**21.5**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	53-70-3	
Fluoranthene	**164**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	206-44-0	
Fluorene	**153**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	193-39-5	
Naphthalene	**61.3**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	91-20-3	
Phenanthrene	**420**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	85-01-8	
Pyrene	**110**	ug/kg	9.2	1	02/19/21 09:47	02/22/21 15:37	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	81	%.	37-88	1	02/19/21 09:47	02/22/21 15:37	321-60-8	2c
Terphenyl-d14 (S)	99	%.	10-128	1	02/19/21 09:47	02/22/21 15:37	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	5.8	1	02/12/21 11:43	02/12/21 15:08	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 15:08	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 15:08	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 15:08	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 15:08	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**27.6**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-13(2'-8') **Lab ID: 30405475007** Collected: 02/08/21 15:05 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**7.2**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:21	7440-38-2	
Lead	**16.5**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:21	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	83-32-9	
Acenaphthylene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	208-96-8	
Anthracene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	207-08-9	
Chrysene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	53-70-3	
Fluoranthene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	206-44-0	
Fluorene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	193-39-5	
Naphthalene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	91-20-3	
Phenanthrene	**18.2**	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	85-01-8	
Pyrene	ND	ug/kg	8.5	1	02/19/21 09:47	02/22/21 15:55	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	92	%.	37-88	1	02/19/21 09:47	02/22/21 15:55	321-60-8	2c,ST
Terphenyl-d14 (S)	104	%.	10-128	1	02/19/21 09:47	02/22/21 15:55	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.2	1	02/12/21 11:43	02/12/21 15:34	91-20-3	
Surrogates								
Toluene-d8 (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 15:34	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 15:34	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	70-130	1	02/12/21 11:43	02/12/21 15:34	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 15:34	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**23.2**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2') **Lab ID: 30405475008** Collected: 02/08/21 13:30 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**8.4**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:39	7440-38-2	D6
Lead	**9.4**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:39	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 7.56 Pace Analytical Services - Greensburg							
Arsenic	ND	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:06	7440-38-2	
Lead	ND	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:06	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**46.7**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	83-32-9	MH,R1
Acenaphthylene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	208-96-8	
Anthracene	**11.4**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	120-12-7	MH,R1
Benzo(a)anthracene	**12.4**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	56-55-3	MH,R1
Benzo(a)pyrene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	50-32-8	MH,R1
Benzo(b)fluoranthene	**8.8**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	205-99-2	MH,R1
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	191-24-2	R1
Benzo(k)fluoranthene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	207-08-9	MH,R1
Chrysene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	218-01-9	MH,R1
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	53-70-3	
Fluoranthene	**73.6**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	206-44-0	MH,R1
Fluorene	**39.7**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	86-73-7	MH,R1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	193-39-5	R1
Naphthalene	**34.8**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	91-20-3	MH,R1
Phenanthrene	**142**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	85-01-8	MH,R1
Pyrene	**49.9**	ug/kg	7.9	1	02/19/21 09:47	02/22/21 16:13	129-00-0	MH,R1
Surrogates								
2-Fluorobiphenyl (S)	88	%.	37-88	1	02/19/21 09:47	02/22/21 16:13	321-60-8	
Terphenyl-d14 (S)	101	%.	10-128	1	02/19/21 09:47	02/22/21 16:13	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	4.6	1	02/12/21 11:43	02/12/21 16:00	91-20-3	R1
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 16:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 16:00	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130	1	02/12/21 11:43	02/12/21 16:00	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 16:00	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	50.0	10		02/19/21 11:18	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	70-130	10		02/19/21 11:18	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2') **Lab ID: 30405475008** Collected: 02/08/21 13:30 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	96	%.	70-130	10		02/19/21 11:18	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130	10		02/19/21 11:18	460-00-4	
Dibromofluoromethane (S)	99	%.	70-130	10		02/19/21 11:18	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**15.4**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')(SPLP) **Lab ID: 30405475009** Collected: 02/17/21 09:21 Received: 02/17/21 09:21 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**0.10**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	208-96-8	
Anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	120-12-7	R1
Benzo(a)anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	207-08-9	
Chrysene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	206-44-0	R1
Fluorene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	193-39-5	
Naphthalene	**0.22**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	91-20-3	
Phenanthrene	**0.14**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	85-01-8	R1
Pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:18	129-00-0	R1
Surrogates								
2-Fluorobiphenyl (S)	54	%.	19-92	1	02/22/21 09:02	02/22/21 16:18	321-60-8	
Terphenyl-d14 (S)	78	%.	55-109	1	02/22/21 09:02	02/22/21 16:18	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MS **Lab ID: 30405475010** Collected: 02/08/21 14:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**55.4**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:45	7440-38-2	
Lead	**61.7**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:45	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 7.56 Pace Analytical Services - Greensburg							
Arsenic	**0.52**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:11	7440-38-2	
Lead	**0.50**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:11	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**157**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	83-32-9	
Acenaphthylene	**177**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	208-96-8	
Anthracene	**163**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	120-12-7	
Benzo(a)anthracene	**171**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	56-55-3	
Benzo(a)pyrene	**172**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	50-32-8	
Benzo(b)fluoranthene	**188**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	205-99-2	
Benzo(g,h,i)perylene	**104**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	191-24-2	
Benzo(k)fluoranthene	**160**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	207-08-9	
Chrysene	**144**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	218-01-9	
Dibenz(a,h)anthracene	**124**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	53-70-3	
Fluoranthene	**175**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	206-44-0	
Fluorene	**170**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**120**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	193-39-5	
Naphthalene	**145**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	91-20-3	
Phenanthrene	**178**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	85-01-8	
Pyrene	**165**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	95	%.	37-88	1	02/19/21 09:47	02/22/21 16:31	321-60-8	2c,ST
Terphenyl-d14 (S)	103	%.	10-128	1	02/19/21 09:47	02/22/21 16:31	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**19.9**	ug/kg	4.8	1	02/12/21 11:43	02/12/21 16:26	91-20-3	
Surrogates								
Toluene-d8 (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 16:26	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 16:26	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130	1	02/12/21 11:43	02/12/21 16:26	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 16:26	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	**140**	ug/L	50.0	10		02/19/21 11:40	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	70-130	10		02/19/21 11:40	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MS **Lab ID: 30405475010** Collected: 02/08/21 14:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	98	%.	70-130	10		02/19/21 11:40	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	10		02/19/21 11:40	460-00-4	
Dibromofluoromethane (S)	96	%.	70-130	10		02/19/21 11:40	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**18.5**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MS(SPLP) **Lab ID: 30405475011** Collected: 02/17/21 09:21 Received: 02/17/21 09:21 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	83-32-9	
Acenaphthylene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	208-96-8	
Anthracene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	120-12-7	
Benzo(a)anthracene	**1.4**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	56-55-3	L2,P2
Benzo(a)pyrene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	205-99-2	
Benzo(g,h,i)perylene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	191-24-2	
Benzo(k)fluoranthene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	207-08-9	
Chrysene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	218-01-9	
Dibenz(a,h)anthracene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	53-70-3	
Fluoranthene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	206-44-0	
Fluorene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	193-39-5	
Naphthalene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	91-20-3	
Phenanthrene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	85-01-8	
Pyrene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:35	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	44	%.	19-92	1	02/22/21 09:02	02/22/21 16:35	321-60-8	
Terphenyl-d14 (S)	61	%.	55-109	1	02/22/21 09:02	02/22/21 16:35	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MSD **Lab ID: 30405475012** Collected: 02/08/21 14:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**52.4**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:48	7440-38-2	
Lead	**62.1**	mg/kg	1.1	1	02/16/21 15:24	02/17/21 10:48	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 7.56 Pace Analytical Services - Greensburg							
Arsenic	**0.53**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:14	7440-38-2	
Lead	**0.51**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:14	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**2960**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	83-32-9	E
Acenaphthylene	**178**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	208-96-8	
Anthracene	**1280**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	120-12-7	
Benzo(a)anthracene	**1540**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	56-55-3	
Benzo(a)pyrene	**683**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	50-32-8	
Benzo(b)fluoranthene	**981**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	205-99-2	
Benzo(g,h,i)perylene	**171**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	191-24-2	
Benzo(k)fluoranthene	**500**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	207-08-9	
Chrysene	**892**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	218-01-9	
Dibenz(a,h)anthracene	**149**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	53-70-3	
Fluoranthene	**4240**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	206-44-0	E
Fluorene	**2930**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	86-73-7	E
Indeno(1,2,3-cd)pyrene	**190**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	193-39-5	
Naphthalene	**1340**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	91-20-3	
Phenanthrene	**5120**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	85-01-8	E
Pyrene	**3710**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 16:48	129-00-0	E
Surrogates								
2-Fluorobiphenyl (S)	93	%.	37-88	1	02/19/21 09:47	02/22/21 16:48	321-60-8	2c,ST
Terphenyl-d14 (S)	93	%.	10-128	1	02/19/21 09:47	02/22/21 16:48	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**10.6**	ug/kg	4.5	1	02/12/21 11:43	02/12/21 16:51	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 16:51	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 16:51	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	02/12/21 11:43	02/12/21 16:51	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 16:51	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	**167**	ug/L	50.0	10		02/19/21 12:03	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	93	%.	70-130	10		02/19/21 12:03	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MSD **Lab ID: 30405475012** Collected: 02/08/21 14:00 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	98	%.	70-130	10		02/19/21 12:03	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130	10		02/19/21 12:03	460-00-4	
Dibromofluoromethane (S)	100	%.	70-130	10		02/19/21 12:03	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**18.2**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-12(0'-2')MSD(SPLP) **Lab ID: 30405475013** Collected: 02/17/21 09:21 Received: 02/17/21 09:21 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	83-32-9	
Acenaphthylene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	208-96-8	
Anthracene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	120-12-7	
Benzo(a)anthracene	**1.6**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	56-55-3	L2,P2
Benzo(a)pyrene	**1.5**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.4**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	205-99-2	
Benzo(g,h,i)perylene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	191-24-2	
Benzo(k)fluoranthene	**1.4**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	207-08-9	
Chrysene	**1.4**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	218-01-9	
Dibenz(a,h)anthracene	**1.4**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	53-70-3	
Fluoranthene	**1.5**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	206-44-0	
Fluorene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.4**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	193-39-5	
Naphthalene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	91-20-3	
Phenanthrene	**1.4**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	85-01-8	
Pyrene	**1.5**	ug/L	0.10	1	02/22/21 09:02	02/22/21 16:52	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52	%.	19-92	1	02/22/21 09:02	02/22/21 16:52	321-60-8	
Terphenyl-d14 (S)	74	%.	55-109	1	02/22/21 09:02	02/22/21 16:52	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-12(2'-8') **Lab ID: 30405475014** Collected: 02/08/21 14:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**14.9**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:33	7440-38-2	
Lead	**26.8**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:33	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**836**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	83-32-9	
Acenaphthylene	**770**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	208-96-8	
Anthracene	**967**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	120-12-7	
Benzo(a)anthracene	**2010**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	56-55-3	
Benzo(a)pyrene	**1800**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	50-32-8	
Benzo(b)fluoranthene	**4580**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	205-99-2	
Benzo(g,h,i)perylene	**616**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	191-24-2	
Benzo(k)fluoranthene	**1210**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	207-08-9	
Chrysene	**2360**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	218-01-9	
Dibenz(a,h)anthracene	**322**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	53-70-3	
Fluoranthene	**4740**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	206-44-0	
Fluorene	**896**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**736**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	193-39-5	
Naphthalene	**775**	ug/kg	8.1	1	02/19/21 09:47	02/22/21 17:06	91-20-3	
Phenanthrene	**4700**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	85-01-8	
Pyrene	**4210**	ug/kg	81.0	10	02/19/21 09:47	02/22/21 17:23	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%.	37-88	1	02/19/21 09:47	02/22/21 17:06	321-60-8	2c
Terphenyl-d14 (S)	94	%.	10-128	1	02/19/21 09:47	02/22/21 17:06	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.4	1	02/12/21 11:43	02/12/21 17:17	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 17:17	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 17:17	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130	1	02/12/21 11:43	02/12/21 17:17	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 17:17	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**18.4**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-11(0'-2') **Lab ID: 30405475015** Collected: 02/08/21 17:15 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**7.1**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:36	7440-38-2	
Lead	**19.9**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:36	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**43.6**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	83-32-9	
Acenaphthylene	**20.1**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	208-96-8	
Anthracene	ND	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	120-12-7	
Benzo(a)anthracene	**89.8**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	56-55-3	
Benzo(a)pyrene	**72.5**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	50-32-8	
Benzo(b)fluoranthene	**204**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	205-99-2	Ip
Benzo(g,h,i)perylene	**26.1**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	191-24-2	
Benzo(k)fluoranthene	**157**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	207-08-9	Ip
Chrysene	**190**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	218-01-9	
Dibenz(a,h)anthracene	**16.1**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	53-70-3	
Fluoranthene	**173**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	206-44-0	
Fluorene	**50.9**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**21.5**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	193-39-5	
Naphthalene	**264**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	91-20-3	
Phenanthrene	**640**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	85-01-8	
Pyrene	**149**	ug/kg	8.4	1	02/19/21 09:47	02/22/21 17:41	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	89	%.	37-88	1	02/19/21 09:47	02/22/21 17:41	321-60-8	S0,ST
Terphenyl-d14 (S)	97	%.	10-128	1	02/19/21 09:47	02/22/21 17:41	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	5.5	1	02/12/21 11:43	02/12/21 17:43	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 17:43	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130	1	02/12/21 11:43	02/12/21 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1	02/12/21 11:43	02/12/21 17:43	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 17:43	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**20.9**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-11(2'-8') **Lab ID: 30405475016** Collected: 02/08/21 17:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**10.6**	mg/kg	1.5	1	02/11/21 15:20	02/12/21 09:39	7440-38-2	
Lead	**20.6**	mg/kg	1.5	1	02/11/21 15:20	02/12/21 09:39	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**14.4**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	83-32-9	
Acenaphthylene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	208-96-8	
Anthracene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	120-12-7	
Benzo(a)anthracene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	56-55-3	
Benzo(a)pyrene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	207-08-9	Ip
Chrysene	**13.6**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	53-70-3	
Fluoranthene	**22.9**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	206-44-0	
Fluorene	**15.3**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	193-39-5	
Naphthalene	**14.4**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	91-20-3	
Phenanthrene	**52.0**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	85-01-8	
Pyrene	**17.3**	ug/kg	10.2	1	02/19/21 09:47	02/22/21 17:59	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	87	%.	37-88	1	02/19/21 09:47	02/22/21 17:59	321-60-8	
Terphenyl-d14 (S)	99	%.	10-128	1	02/19/21 09:47	02/22/21 17:59	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	9.0	1	02/12/21 11:43	02/12/21 18:09	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 18:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 18:09	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130	1	02/12/21 11:43	02/12/21 18:09	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130	1	02/12/21 11:43	02/12/21 18:09	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**35.1**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Equipment Blank 1 **Lab ID: 30405475017** Collected: 02/08/21 17:00 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Arsenic	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:52	7440-38-2	
Lead	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:52	7439-92-1	
Total Hardness by SM2340B-2011	**65600**	ug/L		1	02/11/21 15:14	02/12/21 07:52		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	208-96-8	1c
Anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	207-08-9	1c
Chrysene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	206-44-0	1c
Fluorene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	193-39-5	1c
Naphthalene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	85-01-8	1c
Pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:23	129-00-0	1c
Surrogates								
2-Fluorobiphenyl (S)	53	%.	19-92	1	02/15/21 13:40	02/16/21 15:23	321-60-8	
Terphenyl-d14 (S)	76	%.	55-109	1	02/15/21 13:40	02/16/21 15:23	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Field Blank 1 **Lab ID: 30405475018** Collected: 02/08/21 16:40 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Arsenic	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:55	7440-38-2	
Lead	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:55	7439-92-1	
Total Hardness by SM2340B-2011	**63700**	ug/L		1	02/11/21 15:14	02/12/21 07:55		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	208-96-8	1c
Anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	207-08-9	1c
Chrysene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	206-44-0	1c
Fluorene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	193-39-5	1c
Naphthalene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	85-01-8	1c
Pyrene	ND	ug/L	0.11	1	02/15/21 13:40	02/16/21 15:39	129-00-0	1c
Surrogates								
2-Fluorobiphenyl (S)	53	%.	19-92	1	02/15/21 13:40	02/16/21 15:39	321-60-8	
Terphenyl-d14 (S)	63	%.	55-109	1	02/15/21 13:40	02/16/21 15:39	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2') **Lab ID: 30405475019** Collected: 02/09/21 13:30 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**6.3**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:37	7440-38-2	D6
Lead	**12.5**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:37	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 8.64 Pace Analytical Services - Greensburg							
Arsenic	ND	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:17	7440-38-2	
Lead	ND	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:17	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**64.7**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	83-32-9	
Acenaphthylene	**74.8**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	208-96-8	
Anthracene	**160**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	120-12-7	R1
Benzo(a)anthracene	**219**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	56-55-3	R1
Benzo(a)pyrene	**550**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	50-32-8	ML,R1
Benzo(b)fluoranthene	**1340**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	205-99-2	Ip,ML,R1
Benzo(g,h,i)perylene	**290**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	191-24-2	R1
Benzo(k)fluoranthene	**1310**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	207-08-9	Ip,ML,R1
Chrysene	**312**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	218-01-9	R1
Dibenz(a,h)anthracene	**105**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	53-70-3	
Fluoranthene	**450**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	206-44-0	ML,R1
Fluorene	**49.0**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	86-73-7	
Indeno(1,2,3-cd)pyrene	**304**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	193-39-5	R1
Naphthalene	**116**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	91-20-3	
Phenanthrene	**276**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	85-01-8	R1
Pyrene	**368**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 16:48	129-00-0	R1
Surrogates								
2-Fluorobiphenyl (S)	92	%.	37-88	1	02/23/21 11:00	02/24/21 16:48	321-60-8	ST
Terphenyl-d14 (S)	98	%.	10-128	1	02/23/21 11:00	02/24/21 16:48	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.0	1	02/12/21 11:43	02/12/21 18:35	91-20-3	
Surrogates								
Toluene-d8 (S)	97	%.	70-130	1	02/12/21 11:43	02/12/21 18:35	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 18:35	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 18:35	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130	1	02/12/21 11:43	02/12/21 18:35	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	50.0	10		02/19/21 12:25	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%.	70-130	10		02/19/21 12:25	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2') **Lab ID: 30405475019** Collected: 02/09/21 13:30 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	102	%.	70-130	10		02/19/21 12:25	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	10		02/19/21 12:25	460-00-4	
Dibromofluoromethane (S)	102	%.	70-130	10		02/19/21 12:25	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**18.2**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')(SPLP) **Lab ID: 30405475020** Collected: 02/17/21 13:29 Received: 02/17/21 13:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	83-32-9	
Acenaphthylene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	208-96-8	
Anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	207-08-9	
Chrysene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	53-70-3	
Fluoranthene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	206-44-0	
Fluorene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	193-39-5	
Naphthalene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	91-20-3	
Phenanthrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	85-01-8	
Pyrene	ND	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54	%.	19-92	1	02/22/21 09:02	02/22/21 17:09	321-60-8	
Terphenyl-d14 (S)	61	%.	55-109	1	02/22/21 09:02	02/22/21 17:09	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MS **Lab ID: 30405475021** Collected: 02/09/21 13:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**56.1**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:42	7440-38-2	
Lead	**68.0**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:42	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 8.64 Pace Analytical Services - Greensburg							
Arsenic	**0.51**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:23	7440-38-2	
Lead	**0.50**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:23	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**183**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	83-32-9	
Acenaphthylene	**185**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	208-96-8	
Anthracene	**264**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	120-12-7	
Benzo(a)anthracene	**306**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	56-55-3	
Benzo(a)pyrene	**513**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	50-32-8	
Benzo(b)fluoranthene	**824**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	205-99-2	
Benzo(g,h,i)perylene	**331**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	191-24-2	
Benzo(k)fluoranthene	**416**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	207-08-9	
Chrysene	**333**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	218-01-9	
Dibenz(a,h)anthracene	**197**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	53-70-3	
Fluoranthene	**465**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	206-44-0	
Fluorene	**181**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**342**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	193-39-5	
Naphthalene	**264**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	91-20-3	B
Phenanthrene	**350**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	85-01-8	
Pyrene	**406**	ug/kg	8.0	1	02/23/21 11:00	02/24/21 17:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	84	%.	37-88	1	02/23/21 11:00	02/24/21 17:07	321-60-8	
Terphenyl-d14 (S)	92	%.	10-128	1	02/23/21 11:00	02/24/21 17:07	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**6.9**	ug/kg	4.8	1	02/12/21 11:43	02/12/21 19:01	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 19:01	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 19:01	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	02/12/21 11:43	02/12/21 19:01	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130	1	02/12/21 11:43	02/12/21 19:01	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	**139**	ug/L	50.0	10		02/19/21 12:47	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%.	70-130	10		02/19/21 12:47	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MS **Lab ID: 30405475021** Collected: 02/09/21 13:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	98	%.	70-130	10		02/19/21 12:47	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130	10		02/19/21 12:47	460-00-4	
Dibromofluoromethane (S)	105	%.	70-130	10		02/19/21 12:47	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**17.5**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MS(SPLP) **Lab ID: 30405475022** Collected: 02/17/21 13:29 Received: 02/17/21 13:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**0.96**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	83-32-9	
Acenaphthylene	**0.94**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	208-96-8	
Anthracene	**0.92**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	120-12-7	
Benzo(a)anthracene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	56-55-3	L2,P2
Benzo(a)pyrene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	205-99-2	
Benzo(g,h,i)perylene	**0.95**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	191-24-2	
Benzo(k)fluoranthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	207-08-9	
Chrysene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	218-01-9	
Dibenz(a,h)anthracene	**0.99**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	53-70-3	
Fluoranthene	**1.0**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	206-44-0	
Fluorene	**0.96**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.0**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	193-39-5	
Naphthalene	**0.94**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	91-20-3	
Phenanthrene	**0.95**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	85-01-8	
Pyrene	**1.0**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	42	%.	19-92	1	02/22/21 09:02	02/22/21 17:25	321-60-8	
Terphenyl-d14 (S)	51	%.	55-109	1	02/22/21 09:02	02/22/21 17:25	1718-51-0	P2,S0, SR

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MSD **Lab ID: 30405475023** Collected: 02/09/21 13:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**56.4**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:45	7440-38-2	
Lead	**66.6**	mg/kg	1.1	1	02/16/21 15:27	02/17/21 11:45	7439-92-1	
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 8.64 Pace Analytical Services - Greensburg							
Arsenic	**0.52**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:25	7440-38-2	
Lead	**0.50**	mg/L	0.025	1	02/17/21 15:47	02/19/21 10:25	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	**220**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	83-32-9	
Acenaphthylene	**219**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	208-96-8	
Anthracene	**330**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	120-12-7	
Benzo(a)anthracene	**423**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	56-55-3	
Benzo(a)pyrene	**770**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	50-32-8	
Benzo(b)fluoranthene	**1220**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	205-99-2	
Benzo(g,h,i)perylene	**420**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	191-24-2	
Benzo(k)fluoranthene	**551**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	207-08-9	
Chrysene	**481**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	218-01-9	
Dibenz(a,h)anthracene	**224**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	53-70-3	
Fluoranthene	**674**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	206-44-0	
Fluorene	**219**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**444**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	193-39-5	
Naphthalene	**266**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	91-20-3	B
Phenanthrene	**472**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	85-01-8	
Pyrene	**583**	ug/kg	8.1	1	02/23/21 11:00	02/24/21 17:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	90	%.	37-88	1	02/23/21 11:00	02/24/21 17:26	321-60-8	ST
Terphenyl-d14 (S)	97	%.	10-128	1	02/23/21 11:00	02/24/21 17:26	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	**6.8**	ug/kg	4.8	1	02/12/21 11:43	02/12/21 19:26	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 19:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 19:26	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	02/12/21 11:43	02/12/21 19:26	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 19:26	1868-53-7	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Naphthalene	**150**	ug/L	50.0	10		02/19/21 13:09	91-20-3	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	70-130	10		02/19/21 13:09	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MSD **Lab ID: 30405475023** Collected: 02/09/21 13:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg							
Surrogates								
Toluene-d8 (S)	102	%.	70-130	10		02/19/21 13:09	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130	10		02/19/21 13:09	460-00-4	
Dibromofluoromethane (S)	103	%.	70-130	10		02/19/21 13:09	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**17.7**	%	0.10	1		02/11/21 18:07		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-10 (0'-2')MSD(SPLP) **Lab ID: 30405475024** Collected: 02/17/21 13:29 Received: 02/17/21 13:29 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	83-32-9	
Acenaphthylene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	208-96-8	
Anthracene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	120-12-7	
Benzo(a)anthracene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	56-55-3	L2,P2
Benzo(a)pyrene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.3**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	205-99-2	
Benzo(g,h,i)perylene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	191-24-2	
Benzo(k)fluoranthene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	207-08-9	
Chrysene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	218-01-9	
Dibenz(a,h)anthracene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	53-70-3	
Fluoranthene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	206-44-0	
Fluorene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	193-39-5	
Naphthalene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	91-20-3	
Phenanthrene	**1.1**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	85-01-8	
Pyrene	**1.2**	ug/L	0.10	1	02/22/21 09:02	02/22/21 17:42	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	49	%.	19-92	1	02/22/21 09:02	02/22/21 17:42	321-60-8	
Terphenyl-d14 (S)	57	%.	55-109	1	02/22/21 09:02	02/22/21 17:42	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Equipment Blank 2 **Lab ID: 30405475025** Collected: 02/09/21 13:00 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Arsenic	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:58	7440-38-2	
Lead	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 07:58	7439-92-1	
Total Hardness by SM2340B-2011	**109**	ug/L		1	02/11/21 15:14	02/12/21 07:58		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	83-32-9	1c
Acenaphthylene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	208-96-8	1c
Anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	207-08-9	1c
Chrysene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	53-70-3	1c
Fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	206-44-0	1c
Fluorene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	193-39-5	1c
Naphthalene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	91-20-3	1c
Phenanthrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	85-01-8	1c
Pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 15:56	129-00-0	1c
Surrogates								
2-Fluorobiphenyl (S)	52	%.	19-92	1	02/15/21 13:40	02/16/21 15:56	321-60-8	
Terphenyl-d14 (S)	69	%.	55-109	1	02/15/21 13:40	02/16/21 15:56	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	2.0	1		02/22/21 15:37	91-20-3	
Surrogates								
4-Bromofluorobenzene (S)	104	%.	70-130	1		02/22/21 15:37	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1		02/22/21 15:37	17060-07-0	
Toluene-d8 (S)	95	%.	70-130	1		02/22/21 15:37	2037-26-5	
Dibromofluoromethane (S)	107	%.	70-130	1		02/22/21 15:37	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSB-10 (2'-8') **Lab ID: 30405475026** Collected: 02/09/21 14:20 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**6.6**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:56	7440-38-2	
Lead	**12.5**	mg/kg	1.1	1	02/11/21 15:20	02/12/21 09:56	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	83-32-9	
Acenaphthylene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	208-96-8	
Anthracene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	207-08-9	Ip
Chrysene	**8.4**	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	53-70-3	
Fluoranthene	**8.0**	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	206-44-0	
Fluorene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	193-39-5	
Naphthalene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	91-20-3	B
Phenanthrene	**27.1**	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	85-01-8	
Pyrene	ND	ug/kg	7.9	1	02/23/21 11:00	02/24/21 17:46	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	98	%.	37-88	1	02/23/21 11:00	02/24/21 17:46	321-60-8	ST
Terphenyl-d14 (S)	99	%.	10-128	1	02/23/21 11:00	02/24/21 17:46	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	4.9	1	02/12/21 11:43	02/12/21 19:52	91-20-3	
Surrogates								
Toluene-d8 (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 19:52	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 19:52	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 19:52	17060-07-0	
Dibromofluoromethane (S)	104	%.	70-130	1	02/12/21 11:43	02/12/21 19:52	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**15.8**	%	0.10	1		02/11/21 18:08		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-9 (0-2) **Lab ID: 30405475027** Collected: 02/09/21 16:40 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**45.6**	mg/kg	1.3	1	02/11/21 15:20	02/12/21 09:59	7440-38-2	
Lead	**29.7**	mg/kg	1.3	1	02/11/21 15:20	02/12/21 09:59	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	83-32-9	
Acenaphthylene	**40.8**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	208-96-8	
Anthracene	ND	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	120-12-7	
Benzo(a)anthracene	**39.8**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	56-55-3	
Benzo(a)pyrene	**31.0**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	50-32-8	
Benzo(b)fluoranthene	**77.8**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	205-99-2	Ip
Benzo(g,h,i)perylene	**19.2**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	191-24-2	
Benzo(k)fluoranthene	**76.0**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	207-08-9	Ip
Chrysene	**122**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	218-01-9	
Dibenz(a,h)anthracene	**9.8**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	53-70-3	
Fluoranthene	**82.6**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	206-44-0	
Fluorene	ND	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**10.1**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	193-39-5	
Naphthalene	**337**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	91-20-3	B
Phenanthrene	**352**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	85-01-8	
Pyrene	**74.9**	ug/kg	8.5	1	02/23/21 11:00	02/24/21 18:05	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	81	%.	37-88	1	02/23/21 11:00	02/24/21 18:05	321-60-8	
Terphenyl-d14 (S)	56	%.	10-128	1	02/23/21 11:00	02/24/21 18:05	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	6.9	1	02/12/21 11:43	02/12/21 20:18	91-20-3	
Surrogates								
Toluene-d8 (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 20:18	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130	1	02/12/21 11:43	02/12/21 20:18	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130	1	02/12/21 11:43	02/12/21 20:18	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130	1	02/12/21 11:43	02/12/21 20:18	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**23.1**	%	0.10	1		02/11/21 18:08		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-9 (0-2) Dup **Lab ID: 30405475028** Collected: 02/09/21 16:40 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**15.7**	mg/kg	1.3	1	02/11/21 15:20	02/12/21 10:02	7440-38-2	
Lead	**19.2**	mg/kg	1.3	1	02/11/21 15:20	02/12/21 10:02	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	83-32-9	
Acenaphthylene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	208-96-8	
Anthracene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	120-12-7	
Benzo(a)anthracene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	50-32-8	
Benzo(b)fluoranthene	**9.4**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	191-24-2	
Benzo(k)fluoranthene	**9.2**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	207-08-9	Ip
Chrysene	**13.5**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	53-70-3	
Fluoranthene	**9.5**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	206-44-0	
Fluorene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	193-39-5	
Naphthalene	**10.0**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	91-20-3	B
Phenanthrene	**30.5**	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	85-01-8	
Pyrene	ND	ug/kg	9.0	1	02/23/21 11:00	02/24/21 18:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88	%.	37-88	1	02/23/21 11:00	02/24/21 18:44	321-60-8	
Terphenyl-d14 (S)	90	%.	10-128	1	02/23/21 11:00	02/24/21 18:44	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	7.7	1	02/12/21 11:43	02/12/21 20:44	91-20-3	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1	02/12/21 11:43	02/12/21 20:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 20:44	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1	02/12/21 11:43	02/12/21 20:44	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 20:44	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**27.2**	%	0.10	1		02/11/21 18:08		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: SSS-9 (2-8) **Lab ID: 30405475029** Collected: 02/09/21 16:50 Received: 02/10/21 11:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg							
Arsenic	**11.8**	mg/kg	0.99	1	02/11/21 15:20	02/12/21 10:05	7440-38-2	
Lead	**13.3**	mg/kg	0.99	1	02/11/21 15:20	02/12/21 10:05	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	83-32-9	
Acenaphthylene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	208-96-8	
Anthracene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	50-32-8	
Benzo(b)fluoranthene	**32.6**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	191-24-2	
Benzo(k)fluoranthene	**31.9**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	207-08-9	Ip
Chrysene	**56.4**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	53-70-3	
Fluoranthene	**19.7**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	206-44-0	
Fluorene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	193-39-5	
Naphthalene	**8.8**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	91-20-3	B
Phenanthrene	**148**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	85-01-8	
Pyrene	**18.5**	ug/kg	7.5	1	02/23/21 11:00	02/24/21 19:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	98	%.	37-88	1	02/23/21 11:00	02/24/21 19:03	321-60-8	ST
Terphenyl-d14 (S)	103	%.	10-128	1	02/23/21 11:00	02/24/21 19:03	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/kg	3.9	1	02/12/21 11:43	02/12/21 21:10	91-20-3	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/12/21 11:43	02/12/21 21:10	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/12/21 11:43	02/12/21 21:10	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/12/21 11:43	02/12/21 21:10	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130	1	02/12/21 11:43	02/12/21 21:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg							
Percent Moisture	**11.6**	%	0.10	1		02/11/21 18:08		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Field Blank **Lab ID: 30405475030** Collected: 02/09/21 16:50 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg							
Arsenic	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 08:15	7440-38-2	
Lead	ND	ug/L	10.0	1	02/11/21 15:14	02/12/21 08:15	7439-92-1	
Total Hardness by SM2340B-2011	**40.2**	ug/L		1	02/11/21 15:14	02/12/21 08:15		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg							
Acenaphthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	83-32-9	1c
Acenaphthylene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	208-96-8	1c
Anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	207-08-9	1c
Chrysene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	53-70-3	1c
Fluoranthene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	206-44-0	1c
Fluorene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	193-39-5	1c
Naphthalene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	91-20-3	1c
Phenanthrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	85-01-8	1c
Pyrene	ND	ug/L	0.10	1	02/15/21 13:40	02/16/21 16:13	129-00-0	1c
Surrogates								
2-Fluorobiphenyl (S)	49	%.	19-92	1	02/15/21 13:40	02/16/21 16:13	321-60-8	
Terphenyl-d14 (S)	62	%.	55-109	1	02/15/21 13:40	02/16/21 16:13	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	2.0	1		02/22/21 15:12	91-20-3	
Surrogates								
4-Bromofluorobenzene (S)	105	%.	70-130	1		02/22/21 15:12	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130	1		02/22/21 15:12	17060-07-0	
Toluene-d8 (S)	94	%.	70-130	1		02/22/21 15:12	2037-26-5	
Dibromofluoromethane (S)	109	%.	70-130	1		02/22/21 15:12	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Sample: Trip Blank 1 **Lab ID: 30405475031** Collected: 02/09/21 00:01 Received: 02/10/21 11:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg							
Naphthalene	ND	ug/L	2.0	1		02/22/21 14:46	91-20-3	
Surrogates								
4-Bromofluorobenzene (S)	102	%.	70-130	1		02/22/21 14:46	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1		02/22/21 14:46	17060-07-0	
Toluene-d8 (S)	97	%.	70-130	1		02/22/21 14:46	2037-26-5	
Dibromofluoromethane (S)	106	%.	70-130	1		02/22/21 14:46	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434655 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B | Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475014, 30405475015, 30405475016, 30405475026, 30405475027, 30405475028, 30405475029

METHOD BLANK: 2098669 Matrix: Solid
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475014, 30405475015, 30405475016, 30405475026, 30405475027, 30405475028, 30405475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	02/12/21 08:47	
Lead	mg/kg	ND	1.0	02/12/21 08:47	

LABORATORY CONTROL SAMPLE: 2098670

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.5	101	80-120	
Lead	mg/kg	50	49.1	98	80-120	

MATRIX SPIKE SAMPLE: 2098672

Parameter	Units	30405475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	10.2	51.1	81.2	139	75-125	MH
Lead	mg/kg	23.4	51.1	60.0	72	75-125	ML

SAMPLE DUPLICATE: 2098671

Parameter	Units	30405475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	10.2	8.4	19	20	
Lead	mg/kg	23.4	13.2	56	20	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435206
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475008, 30405475010, 30405475012

METHOD BLANK: 2101111 Matrix: Solid
Associated Lab Samples: 30405475008, 30405475010, 30405475012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	02/17/21 10:34	
Lead	mg/kg	ND	1.0	02/17/21 10:34	

LABORATORY CONTROL SAMPLE: 2101112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.1	98	80-120	
Lead	mg/kg	50	47.6	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101114 2101115

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	8.4	52.7	52.7	53.4	50.7	85	80	75-125	5	20	
Lead	mg/kg	9.4	52.7	52.7	59.5	60.0	95	96	75-125	1	20	

SAMPLE DUPLICATE: 2101113

Parameter	Units	30405475008 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	8.4	4.4	62	20	D6
Lead	mg/kg	9.4	10.1	7	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435207
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475019, 30405475021, 30405475023

METHOD BLANK: 2101117 Matrix: Solid
Associated Lab Samples: 30405475019, 30405475021, 30405475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	02/17/21 11:26	
Lead	mg/kg	ND	1.0	02/17/21 11:26	

LABORATORY CONTROL SAMPLE: 2101118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49	48.2	98	80-120	
Lead	mg/kg	49	47.1	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101120 2101121

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	6.3	55.6	55.6	56.6	56.8	91	91	75-125	0	20	
Lead	mg/kg	12.5	55.6	55.6	68.6	67.0	101	98	75-125	2	20	

SAMPLE DUPLICATE: 2101119

Parameter	Units	30405475019 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	6.3	8.3	27	20	D6
Lead	mg/kg	12.5	15.0	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435404
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

METHOD BLANK: 2101937 Matrix: Water
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	02/19/21 10:00	
Lead	mg/L	ND	0.025	02/19/21 10:00	

METHOD BLANK: 2100601 Matrix: Water
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	02/19/21 10:59	
Lead	mg/L	ND	0.025	02/19/21 10:59	

LABORATORY CONTROL SAMPLE: 2101938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.53	106	80-120	
Lead	mg/L	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101940 2101941

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.52	0.53	102	104	75-125	2	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.51	100	101	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101943 2101944

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.52	103	103	75-125	1	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.50	100	99	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101946 2101947

Parameter	Units	30405879009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.52	101	105	75-125	3	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.51	99	102	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101949 2101950

Parameter	Units	30405879025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.52	0.51	104	102	75-125	2	20	
Lead	mg/L	ND	0.5	0.5	0.51	0.49	101	99	75-125	3	20	

SAMPLE DUPLICATE: 2101939

Parameter	Units	30405475008 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	.0057J		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101942

Parameter	Units	30405475019 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101945

Parameter	Units	30405879009 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101948

Parameter	Units	30405879025 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434644
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475017, 30405475018, 30405475025, 30405475030

METHOD BLANK: 2098630 Matrix: Water
Associated Lab Samples: 30405475017, 30405475018, 30405475025, 30405475030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	02/12/21 07:06	
Lead	ug/L	ND	10.0	02/12/21 07:06	
Total Hardness by SM2340B-2011	ug/L	-22		02/12/21 07:06	

LABORATORY CONTROL SAMPLE: 2098631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	525	105	80-120	
Lead	ug/L	500	504	101	80-120	
Total Hardness by SM2340B-2011	ug/L		35500			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2098633 2098634

Parameter	Units	30404557001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	526	521	105	104	75-125	1	20	
Lead	ug/L	ND	500	500	506	498	101	99	75-125	2	20	
Total Hardness by SM2340B-2011	ug/L	308000			326000	333000				2		

MATRIX SPIKE SAMPLE: 2098636

Parameter	Units	30404617001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	546	109	75-125	
Lead	ug/L	ND	500	512	102	75-125	
Total Hardness by SM2340B-2011	ug/L	129000		162000			

SAMPLE DUPLICATE: 2098632

Parameter	Units	30404557001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	308000	299000	3		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

SAMPLE DUPLICATE: 2098635

Parameter	Units	30404617001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	129000	127000	2		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434776
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016, 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

METHOD BLANK: 2099309 Matrix: Solid
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016, 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/kg	ND	5.0	02/12/21 12:33	
1,2-Dichloroethane-d4 (S)	%.	106	70-130	02/12/21 12:33	
4-Bromofluorobenzene (S)	%.	98	70-130	02/12/21 12:33	
Dibromofluoromethane (S)	%.	101	70-130	02/12/21 12:33	
Toluene-d8 (S)	%.	100	70-130	02/12/21 12:33	

LABORATORY CONTROL SAMPLE: 2099310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	20	15.4	77	65-110	
1,2-Dichloroethane-d4 (S)	%.			104	70-130	
4-Bromofluorobenzene (S)	%.			97	70-130	
Dibromofluoromethane (S)	%.			97	70-130	
Toluene-d8 (S)	%.			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2099311 2099312

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/kg	ND	18.3	17.3	19.1	10.2	104	59	10-154	61	30	R1
1,2-Dichloroethane-d4 (S)	%.						107	111	70-130			
4-Bromofluorobenzene (S)	%.						98	98	70-130			
Dibromofluoromethane (S)	%.						99	100	70-130			
Toluene-d8 (S)	%.						101	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2099313 2099314

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/kg	ND	19.4	19.4	7.0	6.9	36	35	10-154	1	30	
1,2-Dichloroethane-d4 (S)	%.						111	111	70-130			
4-Bromofluorobenzene (S)	%.						99	99	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2099313 2099314

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%.						104	102	70-130			
Toluene-d8 (S)	%.						100	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435567
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

METHOD BLANK: 2101414 Matrix: Solid
Associated Lab Samples: 30405475008, 30405475010, 30405475012, 30405475019, 30405475021, 30405475023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	50.0	02/19/21 10:56	
1,2-Dichloroethane-d4 (S)	%.	92	70-130	02/19/21 10:56	
4-Bromofluorobenzene (S)	%.	101	70-130	02/19/21 10:56	
Dibromofluoromethane (S)	%.	99	70-130	02/19/21 10:56	
Toluene-d8 (S)	%.	98	70-130	02/19/21 10:56	

LABORATORY CONTROL SAMPLE: 2102704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	14.7	74	65-110	
1,2-Dichloroethane-d4 (S)	%.			96	70-130	
4-Bromofluorobenzene (S)	%.			92	70-130	
Dibromofluoromethane (S)	%.			106	70-130	
Toluene-d8 (S)	%.			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102701 2102702

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	140	167	70	83	10-154	17	30	
1,2-Dichloroethane-d4 (S)	%.						93	93	70-130			
4-Bromofluorobenzene (S)	%.						100	97	70-130			
Dibromofluoromethane (S)	%.						96	100	70-130			
Toluene-d8 (S)	%.						98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102703 2102724

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	139	150	65	71	10-154	8	30	
1,2-Dichloroethane-d4 (S)	%.						92	96	70-130			
4-Bromofluorobenzene (S)	%.						97	97	70-130			
Dibromofluoromethane (S)	%.						105	103	70-130			
Toluene-d8 (S)	%.						98	102	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102705 2102725

Parameter	Units	30405879009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	129	155	64	78	10-154	19	30	
1,2-Dichloroethane-d4 (S)	%.						93	94	70-130			
4-Bromofluorobenzene (S)	%.						98	96	70-130			
Dibromofluoromethane (S)	%.						97	103	70-130			
Toluene-d8 (S)	%.						100	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102706 2102726

Parameter	Units	30405879025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	147	154	70	73	10-154	5	30	
1,2-Dichloroethane-d4 (S)	%.						96	95	70-130			
4-Bromofluorobenzene (S)	%.						101	96	70-130			
Dibromofluoromethane (S)	%.						109	98	70-130			
Toluene-d8 (S)	%.						100	112	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435850 | Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C | Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475025, 30405475030, 30405475031

METHOD BLANK: 2103938 Matrix: Water
Associated Lab Samples: 30405475025, 30405475030, 30405475031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	02/22/21 12:39	
1,2-Dichloroethane-d4 (S)	%.	111	70-130	02/22/21 12:39	
4-Bromofluorobenzene (S)	%.	101	70-130	02/22/21 12:39	
Dibromofluoromethane (S)	%.	103	70-130	02/22/21 12:39	
Toluene-d8 (S)	%.	95	70-130	02/22/21 12:39	

LABORATORY CONTROL SAMPLE: 2103939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	22.8	114	55-160	
1,2-Dichloroethane-d4 (S)	%.			115	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			104	70-130	
Toluene-d8 (S)	%.			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103940 2103941

Parameter	Units	7360153001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	17.8	17.2	89	86	30-157	3	30	
1,2-Dichloroethane-d4 (S)	%.						114	106	70-130			
4-Bromofluorobenzene (S)	%.						100	97	70-130			
Dibromofluoromethane (S)	%.						102	103	70-130			
Toluene-d8 (S)	%.						96	98	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434879
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475017, 30405475018, 30405475025, 30405475030

METHOD BLANK: 2100052 Matrix: Water
Associated Lab Samples: 30405475017, 30405475018, 30405475025, 30405475030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	02/16/21 13:59	
Acenaphthylene	ug/L	ND	0.10	02/16/21 13:59	
Anthracene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(a)anthracene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(a)pyrene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(b)fluoranthene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(g,h,i)perylene	ug/L	ND	0.10	02/16/21 13:59	
Benzo(k)fluoranthene	ug/L	ND	0.10	02/16/21 13:59	
Chrysene	ug/L	ND	0.10	02/16/21 13:59	
Dibenz(a,h)anthracene	ug/L	ND	0.10	02/16/21 13:59	
Fluoranthene	ug/L	ND	0.10	02/16/21 13:59	
Fluorene	ug/L	ND	0.10	02/16/21 13:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	02/16/21 13:59	
Naphthalene	ug/L	ND	0.10	02/16/21 13:59	
Phenanthrene	ug/L	ND	0.10	02/16/21 13:59	
Pyrene	ug/L	ND	0.10	02/16/21 13:59	
2-Fluorobiphenyl (S)	%.	48	19-92	02/16/21 13:59	
Terphenyl-d14 (S)	%.	64	55-109	02/16/21 13:59	

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.2	58	29-110	
Acenaphthylene	ug/L	2	1.1	55	28-121	
Anthracene	ug/L	2	1.2	59	40-115	
Benzo(a)anthracene	ug/L	2	1.5	76	63-119	
Benzo(a)pyrene	ug/L	2	1.6	79	56-121	
Benzo(b)fluoranthene	ug/L	2	1.8	88	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.6	81	53-123	
Benzo(k)fluoranthene	ug/L	2	1.5	76	57-121	
Chrysene	ug/L	2	1.5	76	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.7	86	55-125	
Fluoranthene	ug/L	2	1.4	72	55-121	
Fluorene	ug/L	2	1.2	58	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	84	56-124	
Naphthalene	ug/L	2	1.1	57	26-104	
Phenanthrene	ug/L	2	1.2	61	38-112	
Pyrene	ug/L	2	1.4	72	56-119	
2-Fluorobiphenyl (S)	%.			54	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			78	55-109	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435762
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475009, 30405475011, 30405475013, 30405475020, 30405475022, 30405475024

METHOD BLANK: 2103681 Matrix: Water
Associated Lab Samples: 30405475009, 30405475011, 30405475013, 30405475020, 30405475022, 30405475024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	02/22/21 14:38	
Acenaphthylene	ug/L	ND	0.10	02/22/21 14:38	
Anthracene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(a)anthracene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(a)pyrene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(b)fluoranthene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(g,h,i)perylene	ug/L	ND	0.10	02/22/21 14:38	
Benzo(k)fluoranthene	ug/L	ND	0.10	02/22/21 14:38	
Chrysene	ug/L	ND	0.10	02/22/21 14:38	
Dibenz(a,h)anthracene	ug/L	ND	0.10	02/22/21 14:38	
Fluoranthene	ug/L	ND	0.10	02/22/21 14:38	
Fluorene	ug/L	ND	0.10	02/22/21 14:38	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	02/22/21 14:38	
Naphthalene	ug/L	ND	0.10	02/22/21 14:38	
Phenanthrene	ug/L	ND	0.10	02/22/21 14:38	
Pyrene	ug/L	ND	0.10	02/22/21 14:38	
2-Fluorobiphenyl (S)	%.	43	19-92	02/22/21 14:38	
Terphenyl-d14 (S)	%.	58	55-109	02/22/21 14:38	

LABORATORY CONTROL SAMPLE: 2103682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.1	53	29-110	
Acenaphthylene	ug/L	2	1.0	50	28-121	
Anthracene	ug/L	2	0.97	49	40-115	
Benzo(a)anthracene	ug/L	2	1.2	62	63-119	L2
Benzo(a)pyrene	ug/L	2	0.97	48	56-121	L2
Benzo(b)fluoranthene	ug/L	2	1.5	74	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.3	66	53-123	
Benzo(k)fluoranthene	ug/L	2	1.3	63	57-121	
Chrysene	ug/L	2	1.3	67	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.4	71	55-125	
Fluoranthene	ug/L	2	1.2	58	55-121	
Fluorene	ug/L	2	1.1	54	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	69	56-124	
Naphthalene	ug/L	2	1.1	55	26-104	
Phenanthrene	ug/L	2	1.1	55	38-112	
Pyrene	ug/L	2	1.2	58	56-119	
2-Fluorobiphenyl (S)	%.			47	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

LABORATORY CONTROL SAMPLE: 2103682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			63	55-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103683 2103684

Parameter	Units	30405475009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	0.10	2	2	1.1	1.3	50	60	10-125	17	20	
Acenaphthylene	ug/L	ND	2	2	1.1	1.3	53	63	21-116	17	20	
Anthracene	ug/L	ND	2	2	1.1	1.3	53	67	26-114	22	20	R1
Benzo(a)anthracene	ug/L	ND	2	2	1.4	1.6	67	78	39-123	15	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.3	1.5	65	76	24-126	16	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	1.4	63	72	24-135	13	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.1	1.3	55	65	10-132	18	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.2	1.4	60	71	25-123	18	20	
Chrysene	ug/L	ND	2	2	1.2	1.4	60	70	38-113	16	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.2	1.4	59	71	13-122	17	20	
Fluoranthene	ug/L	ND	2	2	1.2	1.5	59	75	32-123	23	20	R1
Fluorene	ug/L	ND	2	2	1.1	1.3	51	63	10-134	20	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.2	1.4	60	70	10-132	17	20	
Naphthalene	ug/L	0.22	2	2	1.1	1.3	46	56	17-98	16	20	
Phenanthrene	ug/L	0.14	2	2	1.1	1.4	50	65	26-116	22	20	R1
Pyrene	ug/L	ND	2	2	1.2	1.5	59	75	31-125	23	20	R1
2-Fluorobiphenyl (S)	%.						44	52	19-92		20	
Terphenyl-d14 (S)	%.						61	74	55-109		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103685 2103686

Parameter	Units	30405475020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	0.96	1.1	48	56	10-125	16	20	
Acenaphthylene	ug/L	ND	2	2	0.94	1.1	47	54	21-116	15	20	
Anthracene	ug/L	ND	2	2	0.92	1.1	46	55	26-114	18	20	
Benzo(a)anthracene	ug/L	ND	2	2	1.1	1.2	57	61	39-123	7	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.1	1.2	53	58	24-126	8	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.1	1.3	54	65	24-135	18	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	0.95	1.1	47	53	10-132	11	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.1	1.1	54	56	25-123	4	20	
Chrysene	ug/L	ND	2	2	1.1	1.2	54	59	38-113	9	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	0.99	1.1	49	55	13-122	11	20	
Fluoranthene	ug/L	ND	2	2	1.0	1.2	52	60	32-123	14	20	
Fluorene	ug/L	ND	2	2	0.96	1.1	48	57	10-134	18	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.0	1.1	50	56	10-132	10	20	
Naphthalene	ug/L	ND	2	2	0.94	1.1	46	56	17-98	19	20	
Phenanthrene	ug/L	ND	2	2	0.95	1.1	47	56	26-116	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2103685			2103686							
Parameter	Units	30405475020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Pyrene	ug/L	ND	2	2	1.0	1.2	52	59	31-125	13	20	
2-Fluorobiphenyl (S)	%.						42	49	19-92		20	
Terphenyl-d14 (S)	%.						51	57	55-109		20	SR

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2103687			2103688							
Parameter	Units	30405879010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	1.0	1.2	51	59	10-125	14	20	
Acenaphthylene	ug/L	ND	2	2	0.99	1.1	49	56	21-116	14	20	
Anthracene	ug/L	ND	2	2	1.1	1.1	52	57	26-114	8	20	
Benzo(a)anthracene	ug/L	ND	2	2	1.4	1.3	68	65	39-123	5	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.2	1.2	61	60	24-126	3	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	1.2	64	62	24-135	4	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.1	1.1	54	54	10-132	0	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.3	1.2	65	61	25-123	6	20	
Chrysene	ug/L	ND	2	2	1.4	1.3	70	66	38-113	6	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.2	1.1	61	56	13-122	9	20	
Fluoranthene	ug/L	ND	2	2	1.3	1.2	65	62	32-123	4	20	
Fluorene	ug/L	ND	2	2	1.0	1.2	52	59	10-134	13	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.2	1.2	59	57	10-132	3	20	
Naphthalene	ug/L	ND	2	2	1.0	1.2	51	58	17-98	14	20	
Phenanthrene	ug/L	ND	2	2	1.1	1.2	54	59	26-116	9	20	
Pyrene	ug/L	ND	2	2	1.3	1.3	66	62	31-125	6	20	
2-Fluorobiphenyl (S)	%.						46	52	19-92		20	
Terphenyl-d14 (S)	%.						68	63	55-109		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2103689			2103690							
Parameter	Units	30405879026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	0.75	1.2	38	59	10-125	44	20	R1
Acenaphthylene	ug/L	ND	2	2	0.75	1.2	37	59	21-116	45	20	R1
Anthracene	ug/L	ND	2	2	0.80	1.2	40	59	26-114	39	20	R1
Benzo(a)anthracene	ug/L	ND	2	2	1.2	1.4	58	69	39-123	17	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.1	1.3	57	67	24-126	15	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.2	1.4	60	70	24-135	16	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.0	1.2	52	60	10-132	15	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.1	1.4	57	68	25-123	18	20	
Chrysene	ug/L	ND	2	2	1.1	1.4	56	69	38-113	20	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.1	1.3	55	63	13-122	15	20	
Fluoranthene	ug/L	ND	2	2	1.0	1.3	51	65	32-123	24	20	R1
Fluorene	ug/L	ND	2	2	0.78	1.2	39	60	10-134	43	20	R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103689 2103690

Parameter	Units	30405879026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.1	1.3	56	64	10-132	14	20	
Naphthalene	ug/L	ND	2	2	0.75	1.2	36	58	17-98	44	20	R1
Phenanthrene	ug/L	ND	2	2	0.82	1.2	40	59	26-116	37	20	R1
Pyrene	ug/L	ND	2	2	1.0	1.3	52	67	31-125	25	20	R1
2-Fluorobiphenyl (S)	%.						32	52	19-92		20	
Terphenyl-d14 (S)	%.						54	66	55-109		20	SR

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435561
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016

METHOD BLANK: 2102676 Matrix: Solid
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.6	02/22/21 11:12	
Acenaphthylene	ug/kg	ND	6.6	02/22/21 11:12	
Anthracene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(a)anthracene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(a)pyrene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(b)fluoranthene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(g,h,i)perylene	ug/kg	ND	6.6	02/22/21 11:12	
Benzo(k)fluoranthene	ug/kg	ND	6.6	02/22/21 11:12	
Chrysene	ug/kg	ND	6.6	02/22/21 11:12	
Dibenz(a,h)anthracene	ug/kg	ND	6.6	02/22/21 11:12	
Fluoranthene	ug/kg	ND	6.6	02/22/21 11:12	
Fluorene	ug/kg	ND	6.6	02/22/21 11:12	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.6	02/22/21 11:12	
Naphthalene	ug/kg	ND	6.6	02/22/21 11:12	
Phenanthrene	ug/kg	ND	6.6	02/22/21 11:12	
Pyrene	ug/kg	ND	6.6	02/22/21 11:12	
2-Fluorobiphenyl (S)	%.	80	37-88	02/22/21 11:12	2c
Terphenyl-d14 (S)	%.	92	10-128	02/22/21 11:12	

LABORATORY CONTROL SAMPLE: 2102677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	132	104	79	47-104	
Acenaphthylene	ug/kg	132	111	84	49-115	
Anthracene	ug/kg	132	115	87	52-115	
Benzo(a)anthracene	ug/kg	132	129	98	54-130	
Benzo(a)pyrene	ug/kg	132	137	104	59-126	
Benzo(b)fluoranthene	ug/kg	132	153	116	55-133	
Benzo(g,h,i)perylene	ug/kg	132	120	91	54-127	
Benzo(k)fluoranthene	ug/kg	132	112	85	56-120	
Chrysene	ug/kg	132	114	86	56-115	
Dibenz(a,h)anthracene	ug/kg	132	125	95	55-129	
Fluoranthene	ug/kg	132	125	95	56-125	
Fluorene	ug/kg	132	112	85	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	132	122	93	55-129	
Naphthalene	ug/kg	132	99.8	76	45-102	
Phenanthrene	ug/kg	132	114	87	50-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

LABORATORY CONTROL SAMPLE: 2102677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	132	123	93	56-122	
2-Fluorobiphenyl (S)	%.			83	37-88	2c
Terphenyl-d14 (S)	%.			103	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102678 2102679

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	46.7	156	156	151	2860	67	1810	24-109	180	20	E,MH, R1
Acenaphthylene	ug/kg	ND	156	156	170	172	109	111	26-119	1	20	
Anthracene	ug/kg	11.4	156	156	157	1240	94	787	32-115	155	20	MH,R1
Benzo(a)anthracene	ug/kg	12.4	156	156	164	1490	98	947	30-133	160	20	MH,R1
Benzo(a)pyrene	ug/kg	ND	156	156	166	661	104	421	11-151	120	20	MH,R1
Benzo(b)fluoranthene	ug/kg	8.8	156	156	182	948	111	602	25-140	136	20	MH,R1
Benzo(g,h,i)perylene	ug/kg	ND	156	156	100	166	64	105	10-126	49	20	R1
Benzo(k)fluoranthene	ug/kg	ND	156	156	154	483	98	308	25-127	103	20	MH,R1
Chrysene	ug/kg	ND	156	156	139	862	84	548	10-142	145	20	MH,R1
Dibenz(a,h)anthracene	ug/kg	ND	156	156	120	144	77	92	13-127	19	20	
Fluoranthene	ug/kg	73.6	156	156	169	4090	61	2580	20-139	184	20	E,MH, R1
Fluorene	ug/kg	39.7	156	156	163	2830	79	1790	28-114	178	20	E,MH, R1
Indeno(1,2,3-cd)pyrene	ug/kg	ND	156	156	116	184	73	117	15-123	45	20	R1
Naphthalene	ug/kg	34.8	156	156	140	1300	68	809	15-104	161	20	MH,R1
Phenanthrene	ug/kg	142	156	156	171	4940	19	3080	10-135	187	20	E,MH, R1
Pyrene	ug/kg	49.9	156	156	159	3590	70	2270	13-139	183	20	E,MH, R1
2-Fluorobiphenyl (S)	%.						95	93	37-88			2c,ST
Terphenyl-d14 (S)	%.						103	93	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 435872
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

METHOD BLANK: 2103991 Matrix: Solid
Associated Lab Samples: 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.6	02/24/21 16:09	
Acenaphthylene	ug/kg	ND	6.6	02/24/21 16:09	
Anthracene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(a)anthracene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(a)pyrene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(b)fluoranthene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(g,h,i)perylene	ug/kg	ND	6.6	02/24/21 16:09	
Benzo(k)fluoranthene	ug/kg	ND	6.6	02/24/21 16:09	
Chrysene	ug/kg	ND	6.6	02/24/21 16:09	
Dibenz(a,h)anthracene	ug/kg	ND	6.6	02/24/21 16:09	
Fluoranthene	ug/kg	ND	6.6	02/24/21 16:09	
Fluorene	ug/kg	ND	6.6	02/24/21 16:09	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.6	02/24/21 16:09	
Naphthalene	ug/kg	7.6	6.6	02/24/21 16:09	B
Phenanthrene	ug/kg	ND	6.6	02/24/21 16:09	
Pyrene	ug/kg	ND	6.6	02/24/21 16:09	
2-Fluorobiphenyl (S)	%.	87	37-88	02/24/21 16:09	
Terphenyl-d14 (S)	%.	84	10-128	02/24/21 16:09	

LABORATORY CONTROL SAMPLE: 2103992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	130	111	85	47-104	
Acenaphthylene	ug/kg	130	110	85	49-115	
Anthracene	ug/kg	130	117	90	52-115	
Benzo(a)anthracene	ug/kg	130	124	95	54-130	
Benzo(a)pyrene	ug/kg	130	127	98	59-126	
Benzo(b)fluoranthene	ug/kg	130	128	98	55-133	
Benzo(g,h,i)perylene	ug/kg	130	128	99	54-127	
Benzo(k)fluoranthene	ug/kg	130	138	106	56-120	
Chrysene	ug/kg	130	123	95	56-115	
Dibenz(a,h)anthracene	ug/kg	130	133	102	55-129	
Fluoranthene	ug/kg	130	113	87	56-125	
Fluorene	ug/kg	130	115	89	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	130	132	102	55-129	
Naphthalene	ug/kg	130	106	82	45-102	
Phenanthrene	ug/kg	130	112	86	50-110	
Pyrene	ug/kg	130	112	87	56-122	
2-Fluorobiphenyl (S)	%.			94	37-88	ST

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

LABORATORY CONTROL SAMPLE: 2103992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			97	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103993 2103994

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	64.7	161	161	184	221	74	97	24-109	18	20	
Acenaphthylene	ug/kg	74.8	161	161	187	221	69	91	26-119	17	20	
Anthracene	ug/kg	160	161	161	266	332	66	107	32-115	22	20	R1
Benzo(a)anthracene	ug/kg	219	161	161	308	426	56	128	30-133	32	20	R1
Benzo(a)pyrene	ug/kg	550	161	161	517	775	-21	139	11-151	40	20	ML,R1
Benzo(b)fluoranthene	ug/kg	1340	161	161	831	1230	-318	-73	25-140	38	20	ML,R1
Benzo(g,h,i)perylene	ug/kg	290	161	161	334	422	27	82	10-126	23	20	R1
Benzo(k)fluoranthene	ug/kg	1310	161	161	419	555	-554	-470	25-127	28	20	ML,R1
Chrysene	ug/kg	312	161	161	336	484	15	107	10-142	36	20	R1
Dibenz(a,h)anthracene	ug/kg	105	161	161	199	225	58	75	13-127	12	20	
Fluoranthene	ug/kg	450	161	161	469	678	11	141	20-139	37	20	ML,R1
Fluorene	ug/kg	49.0	161	161	183	220	83	106	28-114	18	20	
Indeno(1,2,3-cd)pyrene	ug/kg	304	161	161	345	446	25	88	15-123	26	20	R1
Naphthalene	ug/kg	116	161	161	266	268	93	95	15-104	1	20	
Phenanthrene	ug/kg	276	161	161	353	475	48	124	10-135	29	20	R1
Pyrene	ug/kg	368	161	161	410	587	26	136	13-139	35	20	R1
2-Fluorobiphenyl (S)	%.						84	90	37-88			ST
Terphenyl-d14 (S)	%.						92	97	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405475

QC Batch: 434613
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405475001, 30405475002, 30405475003, 30405475004, 30405475005, 30405475006, 30405475007, 30405475008, 30405475010, 30405475012, 30405475014, 30405475015, 30405475016, 30405475019, 30405475021, 30405475023, 30405475026, 30405475027, 30405475028, 30405475029

SAMPLE DUPLICATE: 2098480

Parameter	Units	30405475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.6	15.4	20	20	

SAMPLE DUPLICATE: 2098481

Parameter	Units	30405475002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	9.5	27	20	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 434879

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	The read back of the low concentration calibration standard for this compound is not within 30% of the true value. The results may be biased low and should be considered estimated.
B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: FOC River Trail 60589127
Pace Project No.: 30405475

ANALYTE QUALIFIERS

SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405475001	**SSS-15(0'-2')**	EPA 3050B	434655	EPA 6010D	434707
30405475002	**SSB-15(2'-8')**	EPA 3050B	434655	EPA 6010D	434707
30405475003	**SSS-14(0'-2')**	EPA 3050B	434655	EPA 6010D	434707
30405475004	**SSB-14(2'-8')**	EPA 3050B	434655	EPA 6010D	434707
30405475005	**SSB-14(2'-8') Dup**	EPA 3050B	434655	EPA 6010D	434707
30405475006	**SSS-13(0'-2')**	EPA 3050B	434655	EPA 6010D	434707
30405475007	**SSB-13(2'-8')**	EPA 3050B	434655	EPA 6010D	434707
30405475008	**SSS-12(0'-2')**	EPA 3050B	435206	EPA 6010D	435255
30405475010	**SSS-12(0'-2')MS**	EPA 3050B	435206	EPA 6010D	435255
30405475012	**SSS-12(0'-2')MSD**	EPA 3050B	435206	EPA 6010D	435255
30405475014	**SSB-12(2'-8')**	EPA 3050B	434655	EPA 6010D	434707
30405475015	**SSS-11(0'-2')**	EPA 3050B	434655	EPA 6010D	434707
30405475016	**SSB-11(2'-8')**	EPA 3050B	434655	EPA 6010D	434707
30405475019	**SSS-10 (0'-2')**	EPA 3050B	435207	EPA 6010D	435256
30405475021	**SSS-10 (0'-2')MS**	EPA 3050B	435207	EPA 6010D	435256
30405475023	**SSS-10 (0'-2')MSD**	EPA 3050B	435207	EPA 6010D	435256
30405475026	**SSB-10 (2'-8')**	EPA 3050B	434655	EPA 6010D	434707
30405475027	**SSS-9 (0-2)**	EPA 3050B	434655	EPA 6010D	434707
30405475028	**SSS-9 (0-2) Dup**	EPA 3050B	434655	EPA 6010D	434707
30405475029	**SSS-9 (2-8)**	EPA 3050B	434655	EPA 6010D	434707
30405475008	**SSS-12(0'-2')**	EPA 3005A	435404	EPA 6010D	435435
30405475010	**SSS-12(0'-2')MS**	EPA 3005A	435404	EPA 6010D	435435
30405475012	**SSS-12(0'-2')MSD**	EPA 3005A	435404	EPA 6010D	435435
30405475019	**SSS-10 (0'-2')**	EPA 3005A	435404	EPA 6010D	435435
30405475021	**SSS-10 (0'-2')MS**	EPA 3005A	435404	EPA 6010D	435435
30405475023	**SSS-10 (0'-2')MSD**	EPA 3005A	435404	EPA 6010D	435435
30405475017	**Equipment Blank 1**	EPA 3005A	434644	EPA 6010D	434704
30405475018	**Field Blank 1**	EPA 3005A	434644	EPA 6010D	434704
30405475025	**Equipment Blank 2**	EPA 3005A	434644	EPA 6010D	434704
30405475030	**Field Blank**	EPA 3005A	434644	EPA 6010D	434704
30405475009	**SSS-12(0'-2')(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475011	**SSS-12(0'-2')MS(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475013	**SSS-12(0'-2')MSD(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475017	**Equipment Blank 1**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405475018	**Field Blank 1**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405475020	**SSS-10 (0'-2')(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475022	**SSS-10 (0'-2')MS(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475024	**SSS-10 (0'-2')MSD(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405475025	**Equipment Blank 2**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405475030	**Field Blank**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405475001	**SSS-15(0'-2')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475002	**SSB-15(2'-8')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475003	**SSS-14(0'-2')**	EPA 3546	435561	EPA 8270E by SIM	435723

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405475004	**SSB-14(2'-8')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475005	**SSB-14(2'-8') Dup**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475006	**SSS-13(0'-2')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475007	**SSB-13(2'-8')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475008	**SSS-12(0'-2')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475010	**SSS-12(0'-2')MS**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475012	**SSS-12(0'-2')MSD**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475014	**SSB-12(2'-8')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475015	**SSS-11(0'-2')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475016	**SSB-11(2'-8')**	EPA 3546	435561	EPA 8270E by SIM	435723
30405475019	**SSS-10 (0'-2')**	EPA 3546	435872	EPA 8270E by SIM	436065
30405475021	**SSS-10 (0'-2')MS**	EPA 3546	435872	EPA 8270E by SIM	436065
30405475023	**SSS-10 (0'-2')MSD**	EPA 3546	435872	EPA 8270E by SIM	436065
30405475026	**SSB-10 (2'-8')**	EPA 3546	435872	EPA 8270E by SIM	436065
30405475027	**SSS-9 (0-2)**	EPA 3546	435872	EPA 8270E by SIM	436065
30405475028	**SSS-9 (0-2) Dup**	EPA 3546	435872	EPA 8270E by SIM	436065
30405475029	**SSS-9 (2-8)**	EPA 3546	435872	EPA 8270E by SIM	436065
30405475001	**SSS-15(0'-2')**	EPA 5035A	434776	EPA 8260B	434788
30405475002	**SSB-15(2'-8')**	EPA 5035A	434776	EPA 8260B	434788
30405475003	**SSS-14(0'-2')**	EPA 5035A	434776	EPA 8260B	434788
30405475004	**SSB-14(2'-8')**	EPA 5035A	434776	EPA 8260B	434788
30405475005	**SSB-14(2'-8') Dup**	EPA 5035A	434776	EPA 8260B	434788
30405475006	**SSS-13(0'-2')**	EPA 5035A	434776	EPA 8260B	434788
30405475007	**SSB-13(2'-8')**	EPA 5035A	434776	EPA 8260B	434788
30405475008	**SSS-12(0'-2')**	EPA 5035A	434776	EPA 8260B	434788
30405475010	**SSS-12(0'-2')MS**	EPA 5035A	434776	EPA 8260B	434788
30405475012	**SSS-12(0'-2')MSD**	EPA 5035A	434776	EPA 8260B	434788
30405475014	**SSB-12(2'-8')**	EPA 5035A	434776	EPA 8260B	434788
30405475015	**SSS-11(0'-2')**	EPA 5035A	434776	EPA 8260B	434788
30405475016	**SSB-11(2'-8')**	EPA 5035A	434776	EPA 8260B	434788
30405475019	**SSS-10 (0'-2')**	EPA 5035A	434776	EPA 8260B	434788
30405475021	**SSS-10 (0'-2')MS**	EPA 5035A	434776	EPA 8260B	434788
30405475023	**SSS-10 (0'-2')MSD**	EPA 5035A	434776	EPA 8260B	434788
30405475026	**SSB-10 (2'-8')**	EPA 5035A	434776	EPA 8260B	434788
30405475027	**SSS-9 (0-2)**	EPA 5035A	434776	EPA 8260B	434788
30405475028	**SSS-9 (0-2) Dup**	EPA 5035A	434776	EPA 8260B	434788
30405475029	**SSS-9 (2-8)**	EPA 5035A	434776	EPA 8260B	434788
30405475008	**SSS-12(0'-2')**	EPA 8260B	435567		
30405475010	**SSS-12(0'-2')MS**	EPA 8260B	435567		
30405475012	**SSS-12(0'-2')MSD**	EPA 8260B	435567		
30405475019	**SSS-10 (0'-2')**	EPA 8260B	435567		
30405475021	**SSS-10 (0'-2')MS**	EPA 8260B	435567		
30405475023	**SSS-10 (0'-2')MSD**	EPA 8260B	435567		
30405475025	**Equipment Blank 2**	EPA 8260C	435850		
30405475030	**Field Blank**	EPA 8260C	435850		
30405475031	**Trip Blank 1**	EPA 8260C	435850		

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405475001	**SSS-15(0'-2')**	ASTM D2974-87	434613		
30405475002	**SSB-15(2'-8')**	ASTM D2974-87	434613		
30405475003	**SSS-14(0'-2')**	ASTM D2974-87	434613		
30405475004	**SSB-14(2'-8')**	ASTM D2974-87	434613		
30405475005	**SSB-14(2'-8') Dup**	ASTM D2974-87	434613		
30405475006	**SSS-13(0'-2')**	ASTM D2974-87	434613		
30405475007	**SSB-13(2'-8')**	ASTM D2974-87	434613		
30405475008	**SSS-12(0'-2')**	ASTM D2974-87	434613		
30405475010	**SSS-12(0'-2')MS**	ASTM D2974-87	434613		
30405475012	**SSS-12(0'-2')MSD**	ASTM D2974-87	434613		
30405475014	**SSB-12(2'-8')**	ASTM D2974-87	434613		
30405475015	**SSS-11(0'-2')**	ASTM D2974-87	434613		
30405475016	**SSB-11(2'-8')**	ASTM D2974-87	434613		
30405475019	**SSS-10 (0'-2')**	ASTM D2974-87	434613		
30405475021	**SSS-10 (0'-2')MS**	ASTM D2974-87	434613		
30405475023	**SSS-10 (0'-2')MSD**	ASTM D2974-87	434613		
30405475026	**SSB-10 (2'-8')**	ASTM D2974-87	434613		
30405475027	**SSS-9 (0-2)**	ASTM D2974-87	434613		
30405475028	**SSS-9 (0-2) Dup**	ASTM D2974-87	434613		
30405475029	**SSS-9 (2-8)**	ASTM D2974-87	434613		

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or

WO# : 30405475

30405475

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: FOC River Trail
Customer Project Name/Number: FOC River Trail 60589127	State: WV / County/City: Preston / Time Zone Collected: [ ]PT [ ]MT [ ]CT [✓]ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Newman / Kevin Booton	Purchase Order #: / Quote #: 00071691 / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Business Day / Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

** Preservative Types: (1) nitric acid, (2) [illegible] (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs Napthalene	PAHs, Metals, SVOCs	SPLP Leachate	Trip Blank					Lab Profile/Line:
SSS-15 (0'-2')	SL	G	2/8/21	1605				5	✓	✓							001
SSB-15 (2'-8')	SL	G	2/8/21	1610				5	✓	✓							002
SSS-14 (0'-2')	SL	G	2/8/21	1515				5	✓	✓							003
SSB-14 (2'-8')	SL	G	2/8/21	1520				5	✓	✓							004
SSB-14 (2'-8') Dup	SL	G	2/8/21	1520				5	✓	✓							005
SSS-13 (0'-2')	SL	G	2/8/21	1500				5	✓	✓							006
SSB-13 (2'-8')	SL	G	2/8/21	1505				5	✓	✓							007 RM 2/10/21
SSS-12 (0'-2')	SL	G	2/8/21	1330				6	✓	✓	✓						008 CW3, CW4
SSS-12 (0'-2') MS	SL	G	2/8/21	1400				6	✓	✓	✓						009 010, 011
SSS-12 (0'-2') MSD	SL	G	2/8/21	1400				6	✓	✓	✓						010 012, 013

Analyses

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N	NA
Custody Signatures Present	Y N	NA
Collector Signature Present	Y N	NA
Bottles Intact	Y N	NA
Correct Bottles	Y N	NA
Sufficient Volume	Y N	NA
Samples Received on Ice	Y N	NA
VOA - Headspace Acceptable	Y N	NA
USDA Regulated Soils	Y N	NA
Samples in Holding Time	Y N	NA
Residual Chlorine Present	Y N	NA
Cl Strips:		
Sample pH Acceptable	Y N	NA
pH Strips: DD1101		
Sulfide Present	Y N	NA
Lead Acetate Strips:		

LAB USE ONLY:
Lab Sample # / Comments:

RM 2-11-21

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: ICE

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y N (N/A)

Lab Tracking #: 2623178

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 9
Cooler 1 Temp Upon Receipt: 5.7 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 5.7 oC
Comments:
RM 2-10-21

Relinquished by/Company: (Signature) (AECOM)	Date/Time: 2/10/21 0745	Received by/Company: (Signature)	Date/Time: 2/10/21 8:40
Relinquished by/Company: (Signature)	Date/Time: 2/10/21 11:50	Received by/Company: (Signature) Pace	Date/Time: 2-10-21 1150
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: _____ of: _____

Page 12 of 74

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

30405475

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: FOC River Trail
Customer Project Name/Number: FOC River Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Nevins / Kevin Boston	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Day Buisness Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs	PAH's + Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Sample # / Comments
SSB-12 (2'-8')	SL	G	2/8/21	1420				5	✓	✓			011 014
SSS-11 (0'-2')	SL	G	2/8/21	1715				5	✓	✓			012 015
SSB-11 (2'-8')	SL	G	2/8/21	1720				5	✓	✓			013 016
Equipment Blank 1	WT	G	2/8/21	1700				2		✓			014 017
Field Blank 1	WT	G	2/8/21	1640				2		✓			015 018
SSS-10 (0'-2')	SL	G	2/9/21	1330				6	✓	✓	✓		016 019,020
SSS-10 (0'-2') MS	SL	G	2/9/21	1350				6	✓	✓	✓		017 021,022
SSS-10 (0'-2') MSD	SL	G	2/9/21	1350				6	✓	✓	✓		018 023,024
Equipment Blank 2	WT	G	2/9/21	1300				5	✓	✓			019 025
SSB-10 (2'-8')	SL	G	2/9/21	1420				5	✓	✓			020 026

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:

See Page 1

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2623179

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____oC

Cooler 1 Therm Corr. Factor: _____oC

Cooler 1 Corrected Temp: _____oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
(AECOM)	2/10/21 07:45		2/10/21 0750
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	2/10/21 1150	Pace	2-10-21 1150
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

30405475

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Cheat Trail
Customer Project Name/Number: FOC River Trail 60589127	State: WV / County/City: Preston / Time Zone Collected: [ ]PT [ ]MT [ ]CT [✓]ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Newman / Kevin Boone	Purchase Order #: Quote #0007 1691 / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 day Business / Immediately Packed on Ice: [✓] Yes [ ] No
Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs	Naphthalene	PAHs	Metals	SVOCs	SPLP Leachate	Trip Blank	Lab Profile/Line: Lab Sample # / Comments
SSS-9 (0-2)	SL	G	2/9/21	1640				5	✓	✓						021 027
SSS-9 (0-2) Dup	SL	G	2/9/21	1640				5	✓	✓						022 028
SSB-9 (2-8)	SL	G	2/9/21	1650				5	✓	✓						023 029
Field Blank 2	WT	G	2/9/21	1310				5	✓	✓						024 030
Trip Blank 1	WT	Lab	Lab	Lab				2							✓	025 031

JSN 2/10/21

Seepage 1

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2623180

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____oC

Cooler 1 Therm Corr. Factor: _____oC

Cooler 1 Corrected Temp: _____oC

Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
(AECOM)	2/10/21 0745		
Relinquished by/Company: (Signature)	Date/Time: 2/10/21 11:50	Received by/Company: (Signature) Pace	Date/Time: 2-10-21 1150
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

Page 74 of 74

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 03, 2021

Matthew Watson
AECOM
901 W. DuPont Ave.
Belle, WV 25015

RE: Project: FOC River Trail 60589127
Pace Project No.: 30405879

Dear Matthew Watson:

Enclosed are the analytical results for sample(s) received by the laboratory between February 12, 2021 and February 17, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Alexis E. Ozoroski
alexis.ozoroski@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Wanda Davis, AECOM

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30405879001	**SSS-02(0'-2')**	Solid	02/10/21 14:35	02/12/21 12:40
30405879002	**SSS-02(0'-2')(SPLP)**	Water	02/17/21 11:44	02/17/21 11:44
30405879003	**SSB-02(2'-8')**	Solid	02/10/21 14:45	02/12/21 12:40
30405879004	**SSS-03(0'-2')**	Solid	02/10/21 13:00	02/12/21 12:40
30405879005	**SSB-03(2'-8')**	Solid	02/10/21 13:10	02/12/21 12:40
30405879006	**SSB-03(2'-8')DUP**	Solid	02/10/21 13:10	02/12/21 12:40
30405879007	**SSS-04(0'-2')**	Solid	02/10/21 15:50	02/12/21 12:40
30405879008	**SSB-04(2'-8')**	Solid	02/10/21 16:00	02/12/21 12:40
30405879009	**SSB-05(0'-2')**	Solid	02/10/21 11:20	02/12/21 12:40
30405879010	**SSB-05(0'-2')(SPLP)**	Water	02/17/21 13:07	02/17/21 13:07
30405879011	**SSB-05(0'-2')MS**	Solid	02/10/21 11:50	02/12/21 12:40
30405879012	**SSB-05(0'-2')MS(SPLP)**	Water	02/17/21 13:07	02/17/21 13:07
30405879013	**SSB-05(0'-2')MSD**	Solid	02/10/21 11:50	02/12/21 12:40
30405879014	**SSB-05(0'-2')MSD(SPLP)**	Water	02/17/21 13:07	02/17/21 13:07
30405879015	**SSB-05(2'-8')**	Solid	02/10/21 12:05	02/12/21 12:40
30405879016	**Equipment Blank 3**	Water	02/10/21 12:45	02/12/21 12:40
30405879017	**Field Blank 3**	Water	02/10/21 12:45	02/12/21 12:40
30405879018	**Trip Blank 2**	Water	02/10/21 00:01	02/12/21 12:40
30405879019	**Trip Blank 3**	Water	02/10/21 00:01	02/12/21 12:40
30405879020	**SSS-06 (0'-2')**	Solid	02/11/21 11:30	02/12/21 12:40
30405879021	**SSB-06 (2'-8')**	Solid	02/11/21 11:40	02/12/21 12:40
30405879022	**SSS-07 (0'-2')**	Solid	02/11/21 13:05	02/12/21 12:40
30405879023	**SSB-07 (2'-8')**	Solid	02/11/21 13:20	02/12/21 12:40
30405879024	**SSB-07 (2'-8')DUP**	Solid	02/11/21 13:20	02/12/21 12:40
30405879025	**SSS-08 (0'-2')**	Solid	02/11/21 14:30	02/12/21 12:40
30405879026	**SSS-08 (0'-2')(SPLP)**	Water	02/17/21 13:37	02/17/21 13:37
30405879027	**SSS-08 (0'-2')MS**	Solid	02/11/21 14:50	02/12/21 12:40
30405879028	**SSS-08 (0'-2')MS(SPLP)**	Water	02/17/21 13:37	02/17/21 13:37
30405879029	**SSS-08 (0'-2')MSD**	Solid	02/11/21 14:50	02/12/21 12:40
30405879030	**SSS-08 (0'-2')MSD(SPLP)**	Water	02/17/21 13:37	02/17/21 13:37
30405879031	**SSB-08 (2'-8')**	Solid	02/11/21 15:05	02/12/21 12:40
30405879032	**Equipment Blank 4**	Water	02/11/21 12:50	02/12/21 12:40
30405879033	**Field Blank 4**	Water	02/11/21 12:30	02/12/21 12:40
30405879034	**Trip Blank 4**	Water	02/11/21 00:01	02/12/21 12:40
30405879035	**Trip Blank 5**	Water	02/11/21 00:01	02/12/21 12:40

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30405879001	**SSS-02(0'-2')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879002	**SSS-02(0'-2')(SPLP)**	EPA 8270E By SIM	CF1	18	PASI-PA
30405879003	**SSB-02(2'-8')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879004	**SSS-03(0'-2')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879005	**SSB-03(2'-8')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879006	**SSB-03(2'-8')DUP**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879007	**SSS-04(0'-2')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879008	**SSB-04(2'-8')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879009	**SSB-05(0'-2')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	JEW	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879010	**SSB-05(0'-2')(SPLP)**	EPA 8270E By SIM	CF1	18	PASI-PA
30405879011	**SSB-05(0'-2')MS**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879012	**SSB-05(0'-2')MS(SPLP)**	EPA 8270E By SIM	CF1	18	PASI-PA
30405879013	**SSB-05(0'-2')MSD**	EPA 6010D	CTS	2	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879014	**SSB-05(0'-2')MSD(SPLP)**	EPA 8270E By SIM	CF1	18	PASI-PA
30405879015	**SSB-05(2'-8')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879016	**Equipment Blank 3**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405879017	**Field Blank 3**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405879018	**Trip Blank 2**	EPA 8260C	JAS	5	PASI-PA
30405879019	**Trip Blank 3**	EPA 8260C	JAS	5	PASI-PA
30405879020	**SSS-06 (0'-2')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879021	**SSB-06 (2'-8')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879022	**SSS-07 (0'-2')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879023	**SSB-07 (2'-8')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879024	**SSB-07 (2'-8')DUP**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879025	**SSS-08 (0'-2')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	ZEM	1	PASI-PA
30405879026	**SSS-08 (0'-2')(SPLP)**	EPA 8270E By SIM	CF1	18	PASI-PA
30405879027	**SSS-08 (0'-2')MS**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879028	**SSS-08 (0'-2')MS(SPLP)**	EPA 8270E By SIM	CF1	18	PASI-PA
30405879029	**SSS-08 (0'-2')MSD**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260B	ARG	7	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879030	**SSS-08 (0'-2')MSD(SPLP)**	EPA 8270E By SIM	CF1	18	PASI-PA
30405879031	**SSB-08 (2'-8')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	ARG	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405879032	**Equipment Blank 4**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405879033	**Field Blank 4**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405879034	**Trip Blank 4**	EPA 8260C	JAS	5	PASI-PA
30405879035	**Trip Blank 5**	EPA 8260C	JAS	5	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
17 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: 435207

D6: The precision between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 2101119)
  - Arsenic

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
7 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
11 samples were analyzed for EPA 8270E By SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 434879

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.
- Equipment Blank 3 (Lab ID: 30405879016)
  - Terphenyl-d14 (S)

QC Batch: 435762

S0: Surrogate recovery outside laboratory control limits.
- SSS-08 (0'-2')MS(SPLP) (Lab ID: 30405879028)
  - Terphenyl-d14 (S)

SR: Surrogate recovery was below laboratory control limits. Results may be biased low.
- MS (Lab ID: 2103685)
  - Terphenyl-d14 (S)
- MS (Lab ID: 2103689)
  - Terphenyl-d14 (S)
- SSS-08 (0'-2')MS(SPLP) (Lab ID: 30405879028)
  - Terphenyl-d14 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 435762

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

- LCS (Lab ID: 2103682)
  - Benzo(a)anthracene
  - Benzo(a)pyrene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 434879

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: 435762

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30405475009,30405475020,30405879010,30405879026

R1: RPD value was outside control limits.

- MSD (Lab ID: 2103684)
  - Anthracene
  - Fluoranthene
  - Phenanthrene
  - Pyrene
- MSD (Lab ID: 2103690)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Fluoranthene
  - Fluorene
  - Naphthalene
  - Phenanthrene
  - Pyrene

Additional Comments:

Analyte Comments:

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 3 (Lab ID: 30405879016)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 3 (Lab ID: 30405879016)
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Equipment Blank 4 (Lab ID: 30405879032)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 3 (Lab ID: 30405879017)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Field Blank 3 (Lab ID: 30405879017)
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 4 (Lab ID: 30405879033)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- Equipment Blank 3 (Lab ID: 30405879016)
  - Terphenyl-d14 (S)

QC Batch: 435762

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- SSB-05(0'-2')(SPLP) (Lab ID: 30405879010)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
- SSB-05(0'-2')MS(SPLP) (Lab ID: 30405879012)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
- SSB-05(0'-2')MSD(SPLP) (Lab ID: 30405879014)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
- SSS-02(0'-2')(SPLP) (Lab ID: 30405879002)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
- SSS-08 (0'-2')(SPLP) (Lab ID: 30405879026)
  - Benzo(a)anthracene
  - Benzo(a)pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 435762

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- SSS-08 (0'-2')MS(SPLP) (Lab ID: 30405879028)
  - Benzo(a)anthracene
  - Benzo(a)pyrene
  - Terphenyl-d14 (S)
- SSS-08 (0'-2')MSD(SPLP) (Lab ID: 30405879030)
  - Benzo(a)anthracene
  - Benzo(a)pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
13 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 436066

S4: Surrogate recovery not evaluated against control limits due to sample dilution.
- SSB-04(2'-8') (Lab ID: 30405879008)
  - 2-Fluorobiphenyl (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.
- SSB-02(2'-8') (Lab ID: 30405879003)
  - 2-Fluorobiphenyl (S)
- SSB-03(2'-8') (Lab ID: 30405879005)
  - 2-Fluorobiphenyl (S)
- SSB-03(2'-8')DUP (Lab ID: 30405879006)
  - 2-Fluorobiphenyl (S)
- SSB-06 (2'-8') (Lab ID: 30405879021)
  - 2-Fluorobiphenyl (S)
- SSS-04(0'-2') (Lab ID: 30405879007)
  - 2-Fluorobiphenyl (S)
- SSS-06 (0'-2') (Lab ID: 30405879020)
  - 2-Fluorobiphenyl (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: March 03, 2021

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 436066

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30405879003

R1: RPD value was outside control limits.

- MSD (Lab ID: 2104735)
  - Phenanthrene

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8260B**
Description: 8260B MSV 5035 Low Level
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
13 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 435644

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 435644

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SSB-02(2'-8') (Lab ID: 30405879003)
  - Naphthalene
- SSB-03(2'-8') (Lab ID: 30405879005)
  - Naphthalene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8260B**
Description: 8260B MSV 5035 Low Level
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 435644

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- SSB-03(2'-8')DUP (Lab ID: 30405879006)
  - Naphthalene
- SSB-04(2'-8') (Lab ID: 30405879008)
  - Naphthalene
- SSB-05(2'-8') (Lab ID: 30405879015)
  - Naphthalene
- SSB-06 (2'-8') (Lab ID: 30405879021)
  - Naphthalene
- SSB-07 (2'-8') (Lab ID: 30405879023)
  - Naphthalene
- SSB-07 (2'-8')DUP (Lab ID: 30405879024)
  - Naphthalene
- SSB-08 (2'-8') (Lab ID: 30405879031)
  - Naphthalene
- SSS-03(0'-2') (Lab ID: 30405879004)
  - Naphthalene
- SSS-04(0'-2') (Lab ID: 30405879007)
  - Naphthalene
- SSS-06 (0'-2') (Lab ID: 30405879020)
  - Naphthalene
- SSS-07 (0'-2') (Lab ID: 30405879022)
  - Naphthalene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8260B**
Description: 8260B MSV SPLP
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
7 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Method: **EPA 8260C**
Description: 8260C MSV
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
8 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-02(0'-2') **Lab ID: 30405879001** Collected: 02/10/21 14:35 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 10.77 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:34	7440-38-2	
Lead	ND	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:34	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		02/19/21 15:45	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		02/19/21 15:45	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		02/19/21 15:45	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	90	%.	70-130		10		02/19/21 15:45	17060-07-0	
Toluene-d8 (S)	103	%.	70-130		10		02/19/21 15:45	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	70-130		10		02/19/21 15:45	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		02/19/21 15:45	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**11.6**	%	0.10	0.10	1		02/16/21 18:00		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-02(0'-2')(SPLP) **Lab ID: 30405879002** Collected: 02/17/21 11:44 Received: 02/17/21 11:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 19:39	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:39	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:39	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 19:39	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 19:39	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:39	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:39	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 19:39	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:39	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:39	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 19:39	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%.	19-92		1	02/22/21 09:02	02/22/21 19:39	321-60-8	
Terphenyl-d14 (S)	74	%.	55-109		1	02/22/21 09:02	02/22/21 19:39	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-02(2'-8') **Lab ID: 30405879003** Collected: 02/10/21 14:45 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**11.3**	mg/kg	1.1	0.45	1	02/16/21 15:27	02/17/21 11:48	7440-38-2	
Lead	**20.2**	mg/kg	1.1	0.52	1	02/16/21 15:27	02/17/21 11:48	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.9	0.72	1	02/24/21 10:37	02/25/21 21:28	83-32-9	
Acenaphthylene	ND	ug/kg	7.9	0.57	1	02/24/21 10:37	02/25/21 21:28	208-96-8	
Anthracene	ND	ug/kg	7.9	0.72	1	02/24/21 10:37	02/25/21 21:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.9	0.93	1	02/24/21 10:37	02/25/21 21:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.9	0.49	1	02/24/21 10:37	02/25/21 21:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.9	0.95	1	02/24/21 10:37	02/25/21 21:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1.2	1	02/24/21 10:37	02/25/21 21:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.9	1.3	1	02/24/21 10:37	02/25/21 21:28	207-08-9	
Chrysene	ND	ug/kg	7.9	0.41	1	02/24/21 10:37	02/25/21 21:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1.8	1	02/24/21 10:37	02/25/21 21:28	53-70-3	
Fluoranthene	ND	ug/kg	7.9	0.60	1	02/24/21 10:37	02/25/21 21:28	206-44-0	
Fluorene	ND	ug/kg	7.9	0.73	1	02/24/21 10:37	02/25/21 21:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1.5	1	02/24/21 10:37	02/25/21 21:28	193-39-5	
Naphthalene	ND	ug/kg	7.9	1.5	1	02/24/21 10:37	02/25/21 21:28	91-20-3	
Phenanthrene	**13.2**	ug/kg	7.9	0.70	1	02/24/21 10:37	02/25/21 21:28	85-01-8	R1
Pyrene	ND	ug/kg	7.9	0.89	1	02/24/21 10:37	02/25/21 21:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	89	%.	37-88		1	02/24/21 10:37	02/25/21 21:28	321-60-8	ST
Terphenyl-d14 (S)	100	%.	10-128		1	02/24/21 10:37	02/25/21 21:28	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.6	0.86	1	02/19/21 10:38	02/19/21 14:11	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 14:11	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 14:11	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130		1	02/19/21 10:38	02/19/21 14:11	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 14:11	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**15.9**	%	0.10	0.10	1		02/16/21 18:00		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-03(0'-2') **Lab ID: 30405879004** Collected: 02/10/21 13:00 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**78.4**	mg/kg	1.0	0.41	1	02/16/21 15:27	02/17/21 11:51	7440-38-2	
Lead	**18.7**	mg/kg	1.0	0.47	1	02/16/21 15:27	02/17/21 11:51	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**38.5**	ug/kg	7.8	0.70	1	02/24/21 10:37	02/25/21 22:21	83-32-9	
Acenaphthylene	**101**	ug/kg	7.8	0.56	1	02/24/21 10:37	02/25/21 22:21	208-96-8	
Anthracene	**102**	ug/kg	7.8	0.71	1	02/24/21 10:37	02/25/21 22:21	120-12-7	
Benzo(a)anthracene	**123**	ug/kg	7.8	0.91	1	02/24/21 10:37	02/25/21 22:21	56-55-3	
Benzo(a)pyrene	**139**	ug/kg	7.8	0.49	1	02/24/21 10:37	02/25/21 22:21	50-32-8	
Benzo(b)fluoranthene	**323**	ug/kg	7.8	0.93	1	02/24/21 10:37	02/25/21 22:21	205-99-2	
Benzo(g,h,i)perylene	**213**	ug/kg	7.8	1.2	1	02/24/21 10:37	02/25/21 22:21	191-24-2	
Benzo(k)fluoranthene	**114**	ug/kg	7.8	1.3	1	02/24/21 10:37	02/25/21 22:21	207-08-9	
Chrysene	**277**	ug/kg	7.8	0.40	1	02/24/21 10:37	02/25/21 22:21	218-01-9	
Dibenz(a,h)anthracene	**49.2**	ug/kg	7.8	1.7	1	02/24/21 10:37	02/25/21 22:21	53-70-3	
Fluoranthene	**246**	ug/kg	7.8	0.59	1	02/24/21 10:37	02/25/21 22:21	206-44-0	
Fluorene	**50.4**	ug/kg	7.8	0.72	1	02/24/21 10:37	02/25/21 22:21	86-73-7	
Indeno(1,2,3-cd)pyrene	**111**	ug/kg	7.8	1.5	1	02/24/21 10:37	02/25/21 22:21	193-39-5	
Naphthalene	**779**	ug/kg	7.8	1.5	1	02/24/21 10:37	02/25/21 22:21	91-20-3	
Phenanthrene	**734**	ug/kg	7.8	0.69	1	02/24/21 10:37	02/25/21 22:21	85-01-8	
Pyrene	**225**	ug/kg	7.8	0.87	1	02/24/21 10:37	02/25/21 22:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%.	37-88		1	02/24/21 10:37	02/25/21 22:21	321-60-8	
Terphenyl-d14 (S)	72	%.	10-128		1	02/24/21 10:37	02/25/21 22:21	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.4	1.0	1	02/19/21 10:38	02/19/21 14:37	91-20-3	1c
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 14:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 14:37	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	02/19/21 10:38	02/19/21 14:37	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 14:37	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**16.1**	%	0.10	0.10	1		02/16/21 18:00		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-03(2'-8') **Lab ID: 30405879005** Collected: 02/10/21 13:10 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**14.6**	mg/kg	1.1	0.41	1	02/16/21 15:27	02/17/21 11:53	7440-38-2	
Lead	**16.0**	mg/kg	1.1	0.48	1	02/16/21 15:27	02/17/21 11:53	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.0	0.72	1	02/24/21 10:37	02/25/21 22:39	83-32-9	
Acenaphthylene	ND	ug/kg	8.0	0.57	1	02/24/21 10:37	02/25/21 22:39	208-96-8	
Anthracene	ND	ug/kg	8.0	0.72	1	02/24/21 10:37	02/25/21 22:39	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.0	0.94	1	02/24/21 10:37	02/25/21 22:39	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.0	0.50	1	02/24/21 10:37	02/25/21 22:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.0	0.96	1	02/24/21 10:37	02/25/21 22:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.0	1.2	1	02/24/21 10:37	02/25/21 22:39	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.0	1.3	1	02/24/21 10:37	02/25/21 22:39	207-08-9	
Chrysene	ND	ug/kg	8.0	0.41	1	02/24/21 10:37	02/25/21 22:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.0	1.8	1	02/24/21 10:37	02/25/21 22:39	53-70-3	
Fluoranthene	ND	ug/kg	8.0	0.61	1	02/24/21 10:37	02/25/21 22:39	206-44-0	
Fluorene	ND	ug/kg	8.0	0.74	1	02/24/21 10:37	02/25/21 22:39	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.0	1.5	1	02/24/21 10:37	02/25/21 22:39	193-39-5	
Naphthalene	ND	ug/kg	8.0	1.5	1	02/24/21 10:37	02/25/21 22:39	91-20-3	
Phenanthrene	**12.0**	ug/kg	8.0	0.70	1	02/24/21 10:37	02/25/21 22:39	85-01-8	
Pyrene	ND	ug/kg	8.0	0.90	1	02/24/21 10:37	02/25/21 22:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92	%.	37-88		1	02/24/21 10:37	02/25/21 22:39	321-60-8	ST
Terphenyl-d14 (S)	101	%.	10-128		1	02/24/21 10:37	02/25/21 22:39	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.4	0.82	1	02/19/21 10:38	02/19/21 15:03	91-20-3	1c
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 15:03	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 15:03	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	02/19/21 10:38	02/19/21 15:03	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	02/19/21 10:38	02/19/21 15:03	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**17.0**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-03(2'-8')DUP **Lab ID: 30405879006** Collected: 02/10/21 13:10 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.2**	mg/kg	1.1	0.42	1	02/16/21 15:27	02/17/21 11:56	7440-38-2	
Lead	**6.3**	mg/kg	1.1	0.49	1	02/16/21 15:27	02/17/21 11:56	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.1	0.73	1	02/24/21 10:37	02/25/21 22:57	83-32-9	
Acenaphthylene	ND	ug/kg	8.1	0.58	1	02/24/21 10:37	02/25/21 22:57	208-96-8	
Anthracene	ND	ug/kg	8.1	0.73	1	02/24/21 10:37	02/25/21 22:57	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.1	0.95	1	02/24/21 10:37	02/25/21 22:57	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.1	0.50	1	02/24/21 10:37	02/25/21 22:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.1	0.97	1	02/24/21 10:37	02/25/21 22:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.1	1.2	1	02/24/21 10:37	02/25/21 22:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.1	1.4	1	02/24/21 10:37	02/25/21 22:57	207-08-9	
Chrysene	ND	ug/kg	8.1	0.42	1	02/24/21 10:37	02/25/21 22:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.1	1.8	1	02/24/21 10:37	02/25/21 22:57	53-70-3	
Fluoranthene	**19.7**	ug/kg	8.1	0.61	1	02/24/21 10:37	02/25/21 22:57	206-44-0	
Fluorene	ND	ug/kg	8.1	0.75	1	02/24/21 10:37	02/25/21 22:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.1	1.5	1	02/24/21 10:37	02/25/21 22:57	193-39-5	
Naphthalene	ND	ug/kg	8.1	1.6	1	02/24/21 10:37	02/25/21 22:57	91-20-3	
Phenanthrene	**34.6**	ug/kg	8.1	0.71	1	02/24/21 10:37	02/25/21 22:57	85-01-8	
Pyrene	**13.5**	ug/kg	8.1	0.91	1	02/24/21 10:37	02/25/21 22:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92	%.	37-88		1	02/24/21 10:37	02/25/21 22:57	321-60-8	ST
Terphenyl-d14 (S)	98	%.	10-128		1	02/24/21 10:37	02/25/21 22:57	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.8	0.91	1	02/19/21 10:38	02/19/21 15:29	91-20-3	1c
Surrogates									
Toluene-d8 (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 15:29	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 15:29	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	02/19/21 10:38	02/19/21 15:29	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	02/19/21 10:38	02/19/21 15:29	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**17.2**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-04(0'-2') **Lab ID: 30405879007** Collected: 02/10/21 15:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**4.5**	mg/kg	1.1	0.44	1	02/16/21 15:27	02/17/21 11:59	7440-38-2	
Lead	**9.6**	mg/kg	1.1	0.50	1	02/16/21 15:27	02/17/21 11:59	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.6	0.69	1	02/24/21 10:37	02/25/21 23:14	83-32-9	
Acenaphthylene	ND	ug/kg	7.6	0.54	1	02/24/21 10:37	02/25/21 23:14	208-96-8	
Anthracene	ND	ug/kg	7.6	0.69	1	02/24/21 10:37	02/25/21 23:14	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.6	0.89	1	02/24/21 10:37	02/25/21 23:14	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.6	0.47	1	02/24/21 10:37	02/25/21 23:14	50-32-8	
Benzo(b)fluoranthene	**13.9**	ug/kg	7.6	0.91	1	02/24/21 10:37	02/25/21 23:14	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	7.6	1.1	1	02/24/21 10:37	02/25/21 23:14	191-24-2	
Benzo(k)fluoranthene	**13.2**	ug/kg	7.6	1.3	1	02/24/21 10:37	02/25/21 23:14	207-08-9	Ip
Chrysene	**19.1**	ug/kg	7.6	0.39	1	02/24/21 10:37	02/25/21 23:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.6	1.7	1	02/24/21 10:37	02/25/21 23:14	53-70-3	
Fluoranthene	**14.1**	ug/kg	7.6	0.58	1	02/24/21 10:37	02/25/21 23:14	206-44-0	
Fluorene	ND	ug/kg	7.6	0.70	1	02/24/21 10:37	02/25/21 23:14	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.6	1.4	1	02/24/21 10:37	02/25/21 23:14	193-39-5	
Naphthalene	**18.3**	ug/kg	7.6	1.5	1	02/24/21 10:37	02/25/21 23:14	91-20-3	
Phenanthrene	**55.7**	ug/kg	7.6	0.67	1	02/24/21 10:37	02/25/21 23:14	85-01-8	
Pyrene	**13.5**	ug/kg	7.6	0.85	1	02/24/21 10:37	02/25/21 23:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92	%.	37-88		1	02/24/21 10:37	02/25/21 23:14	321-60-8	ST
Terphenyl-d14 (S)	100	%.	10-128		1	02/24/21 10:37	02/25/21 23:14	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.4	0.84	1	02/19/21 10:38	02/19/21 15:55	91-20-3	1c
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	02/19/21 10:38	02/19/21 15:55	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 15:55	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	02/19/21 10:38	02/19/21 15:55	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	02/19/21 10:38	02/19/21 15:55	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**13.6**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-04(2'-8') **Lab ID: 30405879008** Collected: 02/10/21 16:00 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**30.1**	mg/kg	1.1	0.43	1	02/16/21 15:27	02/17/21 12:08	7440-38-2	
Lead	**23.3**	mg/kg	1.1	0.50	1	02/16/21 15:27	02/17/21 12:08	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**67.3**	ug/kg	7.6	0.68	1	02/24/21 10:37	02/25/21 23:32	83-32-9	
Acenaphthylene	ND	ug/kg	7.6	0.54	1	02/24/21 10:37	02/25/21 23:32	208-96-8	
Anthracene	ND	ug/kg	7.6	0.69	1	02/24/21 10:37	02/25/21 23:32	120-12-7	
Benzo(a)anthracene	**151**	ug/kg	7.6	0.89	1	02/24/21 10:37	02/25/21 23:32	56-55-3	
Benzo(a)pyrene	**127**	ug/kg	7.6	0.47	1	02/24/21 10:37	02/25/21 23:32	50-32-8	
Benzo(b)fluoranthene	**246**	ug/kg	7.6	0.91	1	02/24/21 10:37	02/25/21 23:32	205-99-2	Ip
Benzo(g,h,i)perylene	**46.2**	ug/kg	7.6	1.1	1	02/24/21 10:37	02/25/21 23:32	191-24-2	
Benzo(k)fluoranthene	**234**	ug/kg	7.6	1.3	1	02/24/21 10:37	02/25/21 23:32	207-08-9	Ip
Chrysene	**448**	ug/kg	7.6	0.39	1	02/24/21 10:37	02/25/21 23:32	218-01-9	
Dibenz(a,h)anthracene	**41.3**	ug/kg	7.6	1.7	1	02/24/21 10:37	02/25/21 23:32	53-70-3	
Fluoranthene	**268**	ug/kg	7.6	0.57	1	02/24/21 10:37	02/25/21 23:32	206-44-0	
Fluorene	**144**	ug/kg	75.7	7.0	10	02/24/21 10:37	02/26/21 14:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**23.7**	ug/kg	7.6	1.4	1	02/24/21 10:37	02/25/21 23:32	193-39-5	
Naphthalene	**345**	ug/kg	7.6	1.5	1	02/24/21 10:37	02/25/21 23:32	91-20-3	
Phenanthrene	**1580**	ug/kg	75.7	6.7	10	02/24/21 10:37	02/26/21 14:04	85-01-8	
Pyrene	**263**	ug/kg	7.6	0.85	1	02/24/21 10:37	02/25/21 23:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%.	37-88		10	02/24/21 10:37	02/26/21 14:04	321-60-8	S4
Terphenyl-d14 (S)	96	%.	10-128		10	02/24/21 10:37	02/26/21 14:04	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.1	0.96	1	02/19/21 10:38	02/19/21 16:21	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 16:21	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 16:21	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	02/19/21 10:38	02/19/21 16:21	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	02/19/21 10:38	02/19/21 16:21	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**12.5**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2') **Lab ID: 30405879009** Collected: 02/10/21 11:20 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.92 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:37	7440-38-2	
Lead	ND	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:37	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		02/19/21 13:32	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		02/19/21 13:32	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		02/19/21 13:32	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%.	70-130		10		02/19/21 13:32	17060-07-0	
Toluene-d8 (S)	94	%.	70-130		10		02/19/21 13:32	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		10		02/19/21 13:32	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		02/19/21 13:32	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**13.5**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')(SPLP) **Lab ID: 30405879010** Collected: 02/17/21 13:07 Received: 02/17/21 13:07 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 17:59	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 17:59	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 17:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 17:59	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 17:59	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 17:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 17:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 17:59	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 17:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 17:59	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 17:59	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 17:59	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 17:59	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 17:59	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 17:59	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 17:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%.	19-92		1	02/22/21 09:02	02/22/21 17:59	321-60-8	
Terphenyl-d14 (S)	60	%.	55-109		1	02/22/21 09:02	02/22/21 17:59	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')MS **Lab ID: 30405879011** Collected: 02/10/21 11:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.92 Pace Analytical Services - Greensburg								
Arsenic	**0.51**	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:42	7440-38-2	
Lead	**0.50**	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:42	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	**173**	ug/L	50.0	7.8	10		02/19/21 13:54	108-90-7	
Naphthalene	**129**	ug/L	50.0	9.4	10		02/19/21 13:54	91-20-3	
Tetrachloroethene	**187**	ug/L	50.0	17.3	10		02/19/21 13:54	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	93	%.	70-130		10		02/19/21 13:54	17060-07-0	
Toluene-d8 (S)	100	%.	70-130		10		02/19/21 13:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		10		02/19/21 13:54	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		02/19/21 13:54	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**18.4**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')MS(SPLP) **Lab ID: 30405879012** Collected: 02/17/21 13:07 Received: 02/17/21 13:07 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**1.0**	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 18:16	83-32-9	
Acenaphthylene	**0.99**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:16	208-96-8	
Anthracene	**1.1**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:16	120-12-7	
Benzo(a)anthracene	**1.4**	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 18:16	56-55-3	L2,P2
Benzo(a)pyrene	**1.2**	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 18:16	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.3**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:16	205-99-2	
Benzo(g,h,i)perylene	**1.1**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:16	191-24-2	
Benzo(k)fluoranthene	**1.3**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:16	207-08-9	
Chrysene	**1.4**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:16	218-01-9	
Dibenz(a,h)anthracene	**1.2**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:16	53-70-3	
Fluoranthene	**1.3**	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 18:16	206-44-0	
Fluorene	**1.0**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:16	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.2**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:16	193-39-5	
Naphthalene	**1.0**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:16	91-20-3	
Phenanthrene	**1.1**	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 18:16	85-01-8	
Pyrene	**1.3**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:16	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	46	%.	19-92		1	02/22/21 09:02	02/22/21 18:16	321-60-8	
Terphenyl-d14 (S)	68	%.	55-109		1	02/22/21 09:02	02/22/21 18:16	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')MSD **Lab ID: 30405879013** Collected: 02/10/21 11:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.92 Pace Analytical Services - Greensburg								
Arsenic	**0.52**	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:45	7440-38-2	
Lead	**0.51**	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:45	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	**187**	ug/L	50.0	7.8	10		02/19/21 14:16	108-90-7	
Naphthalene	**155**	ug/L	50.0	9.4	10		02/19/21 14:16	91-20-3	
Tetrachloroethene	**198**	ug/L	50.0	17.3	10		02/19/21 14:16	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%.	70-130		10		02/19/21 14:16	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		10		02/19/21 14:16	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	70-130		10		02/19/21 14:16	460-00-4	
Dibromofluoromethane (S)	103	%.	70-130		10		02/19/21 14:16	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**11.7**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(0'-2')MSD(SPLP) **Lab ID: 30405879014** Collected: 02/17/21 13:07 Received: 02/17/21 13:07 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**1.2**	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 18:32	83-32-9	
Acenaphthylene	**1.1**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:32	208-96-8	
Anthracene	**1.1**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:32	120-12-7	
Benzo(a)anthracene	**1.3**	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 18:32	56-55-3	L2,P2
Benzo(a)pyrene	**1.2**	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 18:32	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.2**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:32	205-99-2	
Benzo(g,h,i)perylene	**1.1**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:32	191-24-2	
Benzo(k)fluoranthene	**1.2**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:32	207-08-9	
Chrysene	**1.3**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:32	218-01-9	
Dibenz(a,h)anthracene	**1.1**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:32	53-70-3	
Fluoranthene	**1.2**	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 18:32	206-44-0	
Fluorene	**1.2**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.2**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:32	193-39-5	
Naphthalene	**1.2**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:32	91-20-3	
Phenanthrene	**1.2**	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 18:32	85-01-8	
Pyrene	**1.3**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%.	19-92		1	02/22/21 09:02	02/22/21 18:32	321-60-8	
Terphenyl-d14 (S)	63	%.	55-109		1	02/22/21 09:02	02/22/21 18:32	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-05(2'-8') **Lab ID: 30405879015** Collected: 02/10/21 12:05 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**11.8**	mg/kg	1.1	0.41	1	02/16/21 15:27	02/17/21 12:10	7440-38-2	
Lead	**11.5**	mg/kg	1.1	0.48	1	02/16/21 15:27	02/17/21 12:10	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.7	0.69	1	02/24/21 10:37	02/25/21 23:50	83-32-9	
Acenaphthylene	ND	ug/kg	7.7	0.55	1	02/24/21 10:37	02/25/21 23:50	208-96-8	
Anthracene	ND	ug/kg	7.7	0.69	1	02/24/21 10:37	02/25/21 23:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.7	0.90	1	02/24/21 10:37	02/25/21 23:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.7	0.48	1	02/24/21 10:37	02/25/21 23:50	50-32-8	
Benzo(b)fluoranthene	**8.8**	ug/kg	7.7	0.92	1	02/24/21 10:37	02/25/21 23:50	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.7	1.2	1	02/24/21 10:37	02/25/21 23:50	191-24-2	
Benzo(k)fluoranthene	**8.3**	ug/kg	7.7	1.3	1	02/24/21 10:37	02/25/21 23:50	207-08-9	lp
Chrysene	**20.2**	ug/kg	7.7	0.40	1	02/24/21 10:37	02/25/21 23:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.7	1.7	1	02/24/21 10:37	02/25/21 23:50	53-70-3	
Fluoranthene	ND	ug/kg	7.7	0.58	1	02/24/21 10:37	02/25/21 23:50	206-44-0	
Fluorene	ND	ug/kg	7.7	0.71	1	02/24/21 10:37	02/25/21 23:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.7	1.5	1	02/24/21 10:37	02/25/21 23:50	193-39-5	
Naphthalene	ND	ug/kg	7.7	1.5	1	02/24/21 10:37	02/25/21 23:50	91-20-3	
Phenanthrene	**63.1**	ug/kg	7.7	0.67	1	02/24/21 10:37	02/25/21 23:50	85-01-8	
Pyrene	ND	ug/kg	7.7	0.86	1	02/24/21 10:37	02/25/21 23:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82	%.	37-88		1	02/24/21 10:37	02/25/21 23:50	321-60-8	
Terphenyl-d14 (S)	94	%.	10-128		1	02/24/21 10:37	02/25/21 23:50	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.2	0.79	1	02/19/21 10:38	02/19/21 16:46	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 16:46	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 16:46	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	02/19/21 10:38	02/19/21 16:46	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	02/19/21 10:38	02/19/21 16:46	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**12.6**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Equipment Blank 3 **Lab ID: 30405879016** Collected: 02/10/21 12:45 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:10	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:10	7439-92-1	
Total Hardness by SM2340B-2011	**79.9**	ug/L			1	02/16/21 15:18	02/17/21 10:10		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 16:30	83-32-9	1c
Acenaphthylene	ND	ug/L	0.12	0.026	1	02/15/21 13:40	02/16/21 16:30	208-96-8	1c
Anthracene	ND	ug/L	0.12	0.027	1	02/15/21 13:40	02/16/21 16:30	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.12	0.099	1	02/15/21 13:40	02/16/21 16:30	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.12	0.032	1	02/15/21 13:40	02/16/21 16:30	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.12	0.051	1	02/15/21 13:40	02/16/21 16:30	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.12	0.037	1	02/15/21 13:40	02/16/21 16:30	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.12	0.051	1	02/15/21 13:40	02/16/21 16:30	207-08-9	1c
Chrysene	ND	ug/L	0.12	0.040	1	02/15/21 13:40	02/16/21 16:30	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.12	0.038	1	02/15/21 13:40	02/16/21 16:30	53-70-3	1c
Fluoranthene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 16:30	206-44-0	1c
Fluorene	ND	ug/L	0.12	0.027	1	02/15/21 13:40	02/16/21 16:30	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	0.041	1	02/15/21 13:40	02/16/21 16:30	193-39-5	1c
Naphthalene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 16:30	91-20-3	1c
Phenanthrene	ND	ug/L	0.12	0.033	1	02/15/21 13:40	02/16/21 16:30	85-01-8	1c
Pyrene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 16:30	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	37	%.	19-92		1	02/15/21 13:40	02/16/21 16:30	321-60-8	
Terphenyl-d14 (S)	46	%.	55-109		1	02/15/21 13:40	02/16/21 16:30	1718-51-0	P2,SR
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 13:25	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		02/23/21 13:25	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%.	70-130		1		02/23/21 13:25	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		02/23/21 13:25	2037-26-5	
Dibromofluoromethane (S)	109	%.	70-130		1		02/23/21 13:25	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Field Blank 3 **Lab ID: 30405879017** Collected: 02/10/21 12:45 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:13	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:13	7439-92-1	
Total Hardness by SM2340B-2011	**19.0**	ug/L			1	02/16/21 15:18	02/17/21 10:13		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 16:46	83-32-9	1c
Acenaphthylene	ND	ug/L	0.12	0.026	1	02/15/21 13:40	02/16/21 16:46	208-96-8	1c
Anthracene	ND	ug/L	0.12	0.027	1	02/15/21 13:40	02/16/21 16:46	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.12	0.10	1	02/15/21 13:40	02/16/21 16:46	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.12	0.032	1	02/15/21 13:40	02/16/21 16:46	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 16:46	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.12	0.038	1	02/15/21 13:40	02/16/21 16:46	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.12	0.051	1	02/15/21 13:40	02/16/21 16:46	207-08-9	1c
Chrysene	ND	ug/L	0.12	0.040	1	02/15/21 13:40	02/16/21 16:46	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.12	0.038	1	02/15/21 13:40	02/16/21 16:46	53-70-3	1c
Fluoranthene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 16:46	206-44-0	1c
Fluorene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 16:46	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	0.041	1	02/15/21 13:40	02/16/21 16:46	193-39-5	1c
Naphthalene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 16:46	91-20-3	1c
Phenanthrene	ND	ug/L	0.12	0.033	1	02/15/21 13:40	02/16/21 16:46	85-01-8	1c
Pyrene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 16:46	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	40	%.	19-92		1	02/15/21 13:40	02/16/21 16:46	321-60-8	
Terphenyl-d14 (S)	67	%.	55-109		1	02/15/21 13:40	02/16/21 16:46	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 13:52	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	70-130		1		02/23/21 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		02/23/21 13:52	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		02/23/21 13:52	2037-26-5	
Dibromofluoromethane (S)	102	%.	70-130		1		02/23/21 13:52	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Trip Blank 2 **Lab ID: 30405879018** Collected: 02/10/21 00:01 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 14:20	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	70-130		1		02/23/21 14:20	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%.	70-130		1		02/23/21 14:20	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		1		02/23/21 14:20	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		02/23/21 14:20	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Trip Blank 3 **Lab ID: 30405879019** Collected: 02/10/21 00:01 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 14:47	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	110	%.	70-130		1		02/23/21 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%.	70-130		1		02/23/21 14:47	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		1		02/23/21 14:47	2037-26-5	
Dibromofluoromethane (S)	101	%.	70-130		1		02/23/21 14:47	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-06 (0'-2') **Lab ID: 30405879020** Collected: 02/11/21 11:30 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.3**	mg/kg	1.1	0.41	1	02/16/21 15:27	02/17/21 12:13	7440-38-2	
Lead	**20.9**	mg/kg	1.1	0.48	1	02/16/21 15:27	02/17/21 12:13	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**12.8**	ug/kg	7.3	0.66	1	02/24/21 10:37	02/26/21 00:07	83-32-9	
Acenaphthylene	**24.7**	ug/kg	7.3	0.53	1	02/24/21 10:37	02/26/21 00:07	208-96-8	
Anthracene	ND	ug/kg	7.3	0.67	1	02/24/21 10:37	02/26/21 00:07	120-12-7	
Benzo(a)anthracene	**48.6**	ug/kg	7.3	0.86	1	02/24/21 10:37	02/26/21 00:07	56-55-3	
Benzo(a)pyrene	**43.4**	ug/kg	7.3	0.46	1	02/24/21 10:37	02/26/21 00:07	50-32-8	
Benzo(b)fluoranthene	**90.4**	ug/kg	7.3	0.88	1	02/24/21 10:37	02/26/21 00:07	205-99-2	
Benzo(g,h,i)perylene	**27.3**	ug/kg	7.3	1.1	1	02/24/21 10:37	02/26/21 00:07	191-24-2	
Benzo(k)fluoranthene	**19.6**	ug/kg	7.3	1.2	1	02/24/21 10:37	02/26/21 00:07	207-08-9	
Chrysene	**127**	ug/kg	7.3	0.38	1	02/24/21 10:37	02/26/21 00:07	218-01-9	
Dibenz(a,h)anthracene	**15.7**	ug/kg	7.3	1.6	1	02/24/21 10:37	02/26/21 00:07	53-70-3	
Fluoranthene	**80.5**	ug/kg	7.3	0.56	1	02/24/21 10:37	02/26/21 00:07	206-44-0	
Fluorene	**21.7**	ug/kg	7.3	0.68	1	02/24/21 10:37	02/26/21 00:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**18.5**	ug/kg	7.3	1.4	1	02/24/21 10:37	02/26/21 00:07	193-39-5	
Naphthalene	**55.1**	ug/kg	7.3	1.4	1	02/24/21 10:37	02/26/21 00:07	91-20-3	
Phenanthrene	**315**	ug/kg	7.3	0.65	1	02/24/21 10:37	02/26/21 00:07	85-01-8	
Pyrene	**84.4**	ug/kg	7.3	0.82	1	02/24/21 10:37	02/26/21 00:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	37-88		1	02/24/21 10:37	02/26/21 00:07	321-60-8	ST
Terphenyl-d14 (S)	99	%.	10-128		1	02/24/21 10:37	02/26/21 00:07	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.2	0.98	1	02/19/21 10:38	02/19/21 17:12	91-20-3	1c
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 17:12	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	70-130		1	02/19/21 10:38	02/19/21 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130		1	02/19/21 10:38	02/19/21 17:12	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 17:12	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**10.8**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-06 (2'-8') **Lab ID: 30405879021** Collected: 02/11/21 11:40 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**2.8**	mg/kg	1.0	0.41	1	02/16/21 15:27	02/17/21 12:16	7440-38-2	
Lead	**4.4**	mg/kg	1.0	0.47	1	02/16/21 15:27	02/17/21 12:16	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**25.5**	ug/kg	7.2	0.65	1	02/24/21 10:37	02/26/21 00:25	83-32-9	
Acenaphthylene	**24.3**	ug/kg	7.2	0.52	1	02/24/21 10:37	02/26/21 00:25	208-96-8	
Anthracene	**32.5**	ug/kg	7.2	0.66	1	02/24/21 10:37	02/26/21 00:25	120-12-7	
Benzo(a)anthracene	**71.0**	ug/kg	7.2	0.85	1	02/24/21 10:37	02/26/21 00:25	56-55-3	
Benzo(a)pyrene	**83.9**	ug/kg	7.2	0.45	1	02/24/21 10:37	02/26/21 00:25	50-32-8	
Benzo(b)fluoranthene	**185**	ug/kg	7.2	0.87	1	02/24/21 10:37	02/26/21 00:25	205-99-2	
Benzo(g,h,i)perylene	**57.1**	ug/kg	7.2	1.1	1	02/24/21 10:37	02/26/21 00:25	191-24-2	
Benzo(k)fluoranthene	**74.1**	ug/kg	7.2	1.2	1	02/24/21 10:37	02/26/21 00:25	207-08-9	
Chrysene	**104**	ug/kg	7.2	0.37	1	02/24/21 10:37	02/26/21 00:25	218-01-9	
Dibenz(a,h)anthracene	**18.0**	ug/kg	7.2	1.6	1	02/24/21 10:37	02/26/21 00:25	53-70-3	
Fluoranthene	**141**	ug/kg	7.2	0.55	1	02/24/21 10:37	02/26/21 00:25	206-44-0	
Fluorene	**20.9**	ug/kg	7.2	0.67	1	02/24/21 10:37	02/26/21 00:25	86-73-7	
Indeno(1,2,3-cd)pyrene	**49.7**	ug/kg	7.2	1.4	1	02/24/21 10:37	02/26/21 00:25	193-39-5	
Naphthalene	**49.2**	ug/kg	7.2	1.4	1	02/24/21 10:37	02/26/21 00:25	91-20-3	
Phenanthrene	**93.3**	ug/kg	7.2	0.64	1	02/24/21 10:37	02/26/21 00:25	85-01-8	
Pyrene	**136**	ug/kg	7.2	0.81	1	02/24/21 10:37	02/26/21 00:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	37-88		1	02/24/21 10:37	02/26/21 00:25	321-60-8	ST
Terphenyl-d14 (S)	95	%.	10-128		1	02/24/21 10:37	02/26/21 00:25	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	**5.7**	ug/kg	3.9	0.73	1	02/19/21 10:38	02/19/21 17:38	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 17:38	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130		1	02/19/21 10:38	02/19/21 17:38	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 17:38	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**7.9**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-07 (0'-2') **Lab ID: 30405879022** Collected: 02/11/21 13:05 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**33.8**	mg/kg	1.3	0.50	1	02/16/21 15:27	02/17/21 12:19	7440-38-2	
Lead	**47.3**	mg/kg	1.3	0.58	1	02/16/21 15:27	02/17/21 12:19	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**31.8**	ug/kg	8.5	0.77	1	02/24/21 10:37	02/26/21 00:43	83-32-9	
Acenaphthylene	**72.7**	ug/kg	8.5	0.61	1	02/24/21 10:37	02/26/21 00:43	208-96-8	
Anthracene	**117**	ug/kg	8.5	0.77	1	02/24/21 10:37	02/26/21 00:43	120-12-7	
Benzo(a)anthracene	**290**	ug/kg	8.5	1.0	1	02/24/21 10:37	02/26/21 00:43	56-55-3	
Benzo(a)pyrene	**727**	ug/kg	8.5	0.53	1	02/24/21 10:37	02/26/21 00:43	50-32-8	
Benzo(b)fluoranthene	**1530**	ug/kg	8.5	1.0	1	02/24/21 10:37	02/26/21 00:43	205-99-2	
Benzo(g,h,i)perylene	**586**	ug/kg	8.5	1.3	1	02/24/21 10:37	02/26/21 00:43	191-24-2	
Benzo(k)fluoranthene	**511**	ug/kg	8.5	1.4	1	02/24/21 10:37	02/26/21 00:43	207-08-9	
Chrysene	**567**	ug/kg	8.5	0.44	1	02/24/21 10:37	02/26/21 00:43	218-01-9	
Dibenz(a,h)anthracene	**202**	ug/kg	8.5	1.9	1	02/24/21 10:37	02/26/21 00:43	53-70-3	
Fluoranthene	**354**	ug/kg	8.5	0.65	1	02/24/21 10:37	02/26/21 00:43	206-44-0	
Fluorene	**33.7**	ug/kg	8.5	0.79	1	02/24/21 10:37	02/26/21 00:43	86-73-7	
Indeno(1,2,3-cd)pyrene	**528**	ug/kg	8.5	1.6	1	02/24/21 10:37	02/26/21 00:43	193-39-5	
Naphthalene	**442**	ug/kg	8.5	1.7	1	02/24/21 10:37	02/26/21 00:43	91-20-3	
Phenanthrene	**469**	ug/kg	8.5	0.75	1	02/24/21 10:37	02/26/21 00:43	85-01-8	
Pyrene	**437**	ug/kg	8.5	0.96	1	02/24/21 10:37	02/26/21 00:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%.	37-88		1	02/24/21 10:37	02/26/21 00:43	321-60-8	
Terphenyl-d14 (S)	78	%.	10-128		1	02/24/21 10:37	02/26/21 00:43	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	9.4	1.8	1	02/19/21 10:38	02/19/21 18:04	91-20-3	1c
Surrogates									
Toluene-d8 (S)	102	%.	70-130		1	02/19/21 10:38	02/19/21 18:04	2037-26-5	
4-Bromofluorobenzene (S)	113	%.	70-130		1	02/19/21 10:38	02/19/21 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	02/19/21 10:38	02/19/21 18:04	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 18:04	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**21.8**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-07 (2'-8') **Lab ID: 30405879023** Collected: 02/11/21 13:20 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**7.5**	mg/kg	0.95	0.37	1	02/16/21 15:27	02/17/21 12:22	7440-38-2	
Lead	**17.8**	mg/kg	0.95	0.43	1	02/16/21 15:27	02/17/21 12:22	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.4	0.67	1	02/24/21 10:37	02/26/21 01:00	83-32-9	
Acenaphthylene	ND	ug/kg	7.4	0.53	1	02/24/21 10:37	02/26/21 01:00	208-96-8	
Anthracene	ND	ug/kg	7.4	0.67	1	02/24/21 10:37	02/26/21 01:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.4	0.87	1	02/24/21 10:37	02/26/21 01:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.4	0.46	1	02/24/21 10:37	02/26/21 01:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.4	0.89	1	02/24/21 10:37	02/26/21 01:00	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.4	1.1	1	02/24/21 10:37	02/26/21 01:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.4	1.2	1	02/24/21 10:37	02/26/21 01:00	207-08-9	lp
Chrysene	**11.0**	ug/kg	7.4	0.38	1	02/24/21 10:37	02/26/21 01:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.4	1.7	1	02/24/21 10:37	02/26/21 01:00	53-70-3	
Fluoranthene	ND	ug/kg	7.4	0.56	1	02/24/21 10:37	02/26/21 01:00	206-44-0	
Fluorene	ND	ug/kg	7.4	0.69	1	02/24/21 10:37	02/26/21 01:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.4	1.4	1	02/24/21 10:37	02/26/21 01:00	193-39-5	
Naphthalene	ND	ug/kg	7.4	1.4	1	02/24/21 10:37	02/26/21 01:00	91-20-3	
Phenanthrene	**35.6**	ug/kg	7.4	0.66	1	02/24/21 10:37	02/26/21 01:00	85-01-8	
Pyrene	ND	ug/kg	7.4	0.84	1	02/24/21 10:37	02/26/21 01:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	84	%.	37-88		1	02/24/21 10:37	02/26/21 01:00	321-60-8	
Terphenyl-d14 (S)	97	%.	10-128		1	02/24/21 10:37	02/26/21 01:00	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.8	0.89	1	02/19/21 10:38	02/19/21 18:30	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 18:30	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	02/19/21 10:38	02/19/21 18:30	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 18:30	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**10.8**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-07 (2'-8')DUP **Lab ID: 30405879024** Collected: 02/11/21 13:20 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**8.8**	mg/kg	1.0	0.40	1	02/16/21 15:27	02/17/21 12:25	7440-38-2	
Lead	**14.4**	mg/kg	1.0	0.47	1	02/16/21 15:27	02/17/21 12:25	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.7	0.70	1	02/24/21 10:37	02/26/21 01:18	83-32-9	
Acenaphthylene	ND	ug/kg	7.7	0.55	1	02/24/21 10:37	02/26/21 01:18	208-96-8	
Anthracene	ND	ug/kg	7.7	0.70	1	02/24/21 10:37	02/26/21 01:18	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.7	0.91	1	02/24/21 10:37	02/26/21 01:18	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.7	0.48	1	02/24/21 10:37	02/26/21 01:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.7	0.93	1	02/24/21 10:37	02/26/21 01:18	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.7	1.2	1	02/24/21 10:37	02/26/21 01:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.7	1.3	1	02/24/21 10:37	02/26/21 01:18	207-08-9	lp
Chrysene	**13.6**	ug/kg	7.7	0.40	1	02/24/21 10:37	02/26/21 01:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.7	1.7	1	02/24/21 10:37	02/26/21 01:18	53-70-3	
Fluoranthene	ND	ug/kg	7.7	0.59	1	02/24/21 10:37	02/26/21 01:18	206-44-0	
Fluorene	ND	ug/kg	7.7	0.72	1	02/24/21 10:37	02/26/21 01:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.7	1.5	1	02/24/21 10:37	02/26/21 01:18	193-39-5	
Naphthalene	ND	ug/kg	7.7	1.5	1	02/24/21 10:37	02/26/21 01:18	91-20-3	
Phenanthrene	**43.3**	ug/kg	7.7	0.68	1	02/24/21 10:37	02/26/21 01:18	85-01-8	
Pyrene	ND	ug/kg	7.7	0.87	1	02/24/21 10:37	02/26/21 01:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	37-88		1	02/24/21 10:37	02/26/21 01:18	321-60-8	
Terphenyl-d14 (S)	88	%.	10-128		1	02/24/21 10:37	02/26/21 01:18	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.9	0.92	1	02/19/21 10:38	02/19/21 18:56	91-20-3	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 18:56	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130		1	02/19/21 10:38	02/19/21 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	02/19/21 10:38	02/19/21 18:56	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 18:56	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**15.2**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2') **Lab ID: 30405879025** Collected: 02/11/21 14:30 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.14 Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:48	7440-38-2	
Lead	ND	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:48	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		02/19/21 14:38	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		02/19/21 14:38	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		02/19/21 14:38	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	92	%.	70-130		10		02/19/21 14:38	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		02/19/21 14:38	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	70-130		10		02/19/21 14:38	460-00-4	
Dibromofluoromethane (S)	103	%.	70-130		10		02/19/21 14:38	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**10.7**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')(SPLP) **Lab ID: 30405879026** Collected: 02/17/21 13:37 Received: 02/17/21 13:37 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 18:49	83-32-9	R1
Acenaphthylene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:49	208-96-8	R1
Anthracene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:49	120-12-7	R1
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 18:49	56-55-3	L2,P2
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 18:49	50-32-8	L2,P2
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:49	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 18:49	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 18:49	206-44-0	R1
Fluorene	ND	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 18:49	86-73-7	R1
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 18:49	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 18:49	91-20-3	R1
Phenanthrene	ND	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 18:49	85-01-8	R1
Pyrene	ND	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 18:49	129-00-0	R1
Surrogates									
2-Fluorobiphenyl (S)	41	%.	19-92		1	02/22/21 09:02	02/22/21 18:49	321-60-8	
Terphenyl-d14 (S)	63	%.	55-109		1	02/22/21 09:02	02/22/21 18:49	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')MS **Lab ID: 30405879027** Collected: 02/11/21 14:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.14 Pace Analytical Services - Greensburg								
Arsenic	**0.52**	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:54	7440-38-2	
Lead	**0.51**	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:54	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	**188**	ug/L	50.0	7.8	10		02/19/21 15:01	108-90-7	
Naphthalene	**147**	ug/L	50.0	9.4	10		02/19/21 15:01	91-20-3	
Tetrachloroethene	**202**	ug/L	50.0	17.3	10		02/19/21 15:01	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	70-130		10		02/19/21 15:01	17060-07-0	
Toluene-d8 (S)	100	%.	70-130		10		02/19/21 15:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		02/19/21 15:01	460-00-4	
Dibromofluoromethane (S)	109	%.	70-130		10		02/19/21 15:01	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**11.4**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')MS(SPLP) **Lab ID: 30405879028** Collected: 02/17/21 13:37 Received: 02/17/21 13:37 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**0.75**	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 19:06	83-32-9	
Acenaphthylene	**0.75**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:06	208-96-8	
Anthracene	**0.80**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:06	120-12-7	
Benzo(a)anthracene	**1.2**	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 19:06	56-55-3	L2,P2
Benzo(a)pyrene	**1.1**	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 19:06	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.2**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:06	205-99-2	
Benzo(g,h,i)perylene	**1.0**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:06	191-24-2	
Benzo(k)fluoranthene	**1.1**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:06	207-08-9	
Chrysene	**1.1**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:06	218-01-9	
Dibenz(a,h)anthracene	**1.1**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:06	53-70-3	
Fluoranthene	**1.0**	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 19:06	206-44-0	
Fluorene	**0.78**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.1**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:06	193-39-5	
Naphthalene	**0.75**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:06	91-20-3	
Phenanthrene	**0.82**	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 19:06	85-01-8	
Pyrene	**1.0**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	32	%.	19-92		1	02/22/21 09:02	02/22/21 19:06	321-60-8	
Terphenyl-d14 (S)	54	%.	55-109		1	02/22/21 09:02	02/22/21 19:06	1718-51-0	P2,S0, SR

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')MSD **Lab ID: 30405879029** Collected: 02/11/21 14:50 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Leachate Method/Date: EPA 1312; 02/16/21 13:34 Initial pH: ; Final pH: 9.14 Pace Analytical Services - Greensburg								
Arsenic	**0.51**	mg/L	0.025	0.0033	1	02/17/21 15:47	02/19/21 10:56	7440-38-2	
Lead	**0.49**	mg/L	0.025	0.0031	1	02/17/21 15:47	02/19/21 10:56	7439-92-1	
8260B MSV SPLP	Analytical Method: EPA 8260B Leachate Method/Date: EPA 1312; 02/17/21 17:04 Pace Analytical Services - Greensburg								
Chlorobenzene	**190**	ug/L	50.0	7.8	10		02/19/21 15:23	108-90-7	
Naphthalene	**154**	ug/L	50.0	9.4	10		02/19/21 15:23	91-20-3	
Tetrachloroethene	**210**	ug/L	50.0	17.3	10		02/19/21 15:23	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%.	70-130		10		02/19/21 15:23	17060-07-0	
Toluene-d8 (S)	112	%.	70-130		10		02/19/21 15:23	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	70-130		10		02/19/21 15:23	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		02/19/21 15:23	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**10.7**	%	0.10	0.10	1		02/16/21 18:01		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSS-08 (0'-2')MSD(SPLP) **Lab ID: 30405879030** Collected: 02/17/21 13:37 Received: 02/17/21 13:37 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**1.2**	ug/L	0.10	0.023	1	02/22/21 09:02	02/22/21 19:23	83-32-9	
Acenaphthylene	**1.2**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:23	208-96-8	
Anthracene	**1.2**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:23	120-12-7	
Benzo(a)anthracene	**1.4**	ug/L	0.10	0.081	1	02/22/21 09:02	02/22/21 19:23	56-55-3	L2,P2
Benzo(a)pyrene	**1.3**	ug/L	0.10	0.026	1	02/22/21 09:02	02/22/21 19:23	50-32-8	L2,P2
Benzo(b)fluoranthene	**1.4**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:23	205-99-2	
Benzo(g,h,i)perylene	**1.2**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:23	191-24-2	
Benzo(k)fluoranthene	**1.4**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:23	207-08-9	
Chrysene	**1.4**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:23	218-01-9	
Dibenz(a,h)anthracene	**1.3**	ug/L	0.10	0.031	1	02/22/21 09:02	02/22/21 19:23	53-70-3	
Fluoranthene	**1.3**	ug/L	0.10	0.020	1	02/22/21 09:02	02/22/21 19:23	206-44-0	
Fluorene	**1.2**	ug/L	0.10	0.022	1	02/22/21 09:02	02/22/21 19:23	86-73-7	
Indeno(1,2,3-cd)pyrene	**1.3**	ug/L	0.10	0.033	1	02/22/21 09:02	02/22/21 19:23	193-39-5	
Naphthalene	**1.2**	ug/L	0.10	0.042	1	02/22/21 09:02	02/22/21 19:23	91-20-3	
Phenanthrene	**1.2**	ug/L	0.10	0.027	1	02/22/21 09:02	02/22/21 19:23	85-01-8	
Pyrene	**1.3**	ug/L	0.10	0.021	1	02/22/21 09:02	02/22/21 19:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52	%.	19-92		1	02/22/21 09:02	02/22/21 19:23	321-60-8	
Terphenyl-d14 (S)	66	%.	55-109		1	02/22/21 09:02	02/22/21 19:23	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: SSB-08 (2'-8') **Lab ID: 30405879031** Collected: 02/11/21 15:05 Received: 02/12/21 12:40 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**9.5**	mg/kg	1.0	0.39	1	02/16/21 15:27	02/17/21 12:28	7440-38-2	
Lead	**15.6**	mg/kg	1.0	0.45	1	02/16/21 15:27	02/17/21 12:28	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**43.7**	ug/kg	7.6	0.69	1	02/24/21 10:37	02/26/21 01:36	83-32-9	
Acenaphthylene	ND	ug/kg	7.6	0.54	1	02/24/21 10:37	02/26/21 01:36	208-96-8	
Anthracene	**29.0**	ug/kg	7.6	0.69	1	02/24/21 10:37	02/26/21 01:36	120-12-7	
Benzo(a)anthracene	**37.9**	ug/kg	7.6	0.89	1	02/24/21 10:37	02/26/21 01:36	56-55-3	
Benzo(a)pyrene	**12.3**	ug/kg	7.6	0.47	1	02/24/21 10:37	02/26/21 01:36	50-32-8	
Benzo(b)fluoranthene	**23.1**	ug/kg	7.6	0.91	1	02/24/21 10:37	02/26/21 01:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.6	1.1	1	02/24/21 10:37	02/26/21 01:36	191-24-2	
Benzo(k)fluoranthene	**8.2**	ug/kg	7.6	1.3	1	02/24/21 10:37	02/26/21 01:36	207-08-9	
Chrysene	**30.5**	ug/kg	7.6	0.39	1	02/24/21 10:37	02/26/21 01:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.6	1.7	1	02/24/21 10:37	02/26/21 01:36	53-70-3	
Fluoranthene	**221**	ug/kg	7.6	0.57	1	02/24/21 10:37	02/26/21 01:36	206-44-0	
Fluorene	**58.1**	ug/kg	7.6	0.70	1	02/24/21 10:37	02/26/21 01:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.6	1.4	1	02/24/21 10:37	02/26/21 01:36	193-39-5	
Naphthalene	**28.3**	ug/kg	7.6	1.5	1	02/24/21 10:37	02/26/21 01:36	91-20-3	
Phenanthrene	**296**	ug/kg	7.6	0.67	1	02/24/21 10:37	02/26/21 01:36	85-01-8	
Pyrene	**153**	ug/kg	7.6	0.85	1	02/24/21 10:37	02/26/21 01:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	84	%.	37-88		1	02/24/21 10:37	02/26/21 01:36	321-60-8	
Terphenyl-d14 (S)	94	%.	10-128		1	02/24/21 10:37	02/26/21 01:36	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	4.9	0.91	1	02/19/21 10:38	02/19/21 19:21	91-20-3	1c
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	02/19/21 10:38	02/19/21 19:21	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	02/19/21 10:38	02/19/21 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130		1	02/19/21 10:38	02/19/21 19:21	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	02/19/21 10:38	02/19/21 19:21	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**12.6**	%	0.10	0.10	1		02/16/21 18:02		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Equipment Blank 4 **Lab ID: 30405879032** Collected: 02/11/21 12:50 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:28	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:28	7439-92-1	
Total Hardness by SM2340B-2011	**0.0000000010**	ug/L			1	02/16/21 15:18	02/17/21 10:28		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.025	1	02/15/21 13:40	02/16/21 17:03	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.023	1	02/15/21 13:40	02/16/21 17:03	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.024	1	02/15/21 13:40	02/16/21 17:03	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.088	1	02/15/21 13:40	02/16/21 17:03	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.028	1	02/15/21 13:40	02/16/21 17:03	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.046	1	02/15/21 13:40	02/16/21 17:03	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.033	1	02/15/21 13:40	02/16/21 17:03	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.045	1	02/15/21 13:40	02/16/21 17:03	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.035	1	02/15/21 13:40	02/16/21 17:03	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.034	1	02/15/21 13:40	02/16/21 17:03	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.022	1	02/15/21 13:40	02/16/21 17:03	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.024	1	02/15/21 13:40	02/16/21 17:03	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.036	1	02/15/21 13:40	02/16/21 17:03	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.046	1	02/15/21 13:40	02/16/21 17:03	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.029	1	02/15/21 13:40	02/16/21 17:03	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.022	1	02/15/21 13:40	02/16/21 17:03	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	46	%.	19-92		1	02/15/21 13:40	02/16/21 17:03	321-60-8	
Terphenyl-d14 (S)	58	%.	55-109		1	02/15/21 13:40	02/16/21 17:03	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 15:41	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		02/23/21 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		02/23/21 15:41	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		02/23/21 15:41	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		02/23/21 15:41	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Field Blank 4 **Lab ID: 30405879033** Collected: 02/11/21 12:30 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:31	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:31	7439-92-1	
Total Hardness by SM2340B-2011	**18.5**	ug/L			1	02/16/21 15:18	02/17/21 10:31		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 17:20	83-32-9	1c
Acenaphthylene	ND	ug/L	0.12	0.027	1	02/15/21 13:40	02/16/21 17:20	208-96-8	1c
Anthracene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 17:20	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.12	0.10	1	02/15/21 13:40	02/16/21 17:20	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.12	0.032	1	02/15/21 13:40	02/16/21 17:20	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 17:20	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.12	0.038	1	02/15/21 13:40	02/16/21 17:20	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.12	0.052	1	02/15/21 13:40	02/16/21 17:20	207-08-9	1c
Chrysene	ND	ug/L	0.12	0.041	1	02/15/21 13:40	02/16/21 17:20	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.12	0.039	1	02/15/21 13:40	02/16/21 17:20	53-70-3	1c
Fluoranthene	ND	ug/L	0.12	0.025	1	02/15/21 13:40	02/16/21 17:20	206-44-0	1c
Fluorene	ND	ug/L	0.12	0.028	1	02/15/21 13:40	02/16/21 17:20	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.12	0.042	1	02/15/21 13:40	02/16/21 17:20	193-39-5	1c
Naphthalene	ND	ug/L	0.12	0.053	1	02/15/21 13:40	02/16/21 17:20	91-20-3	1c
Phenanthrene	ND	ug/L	0.12	0.034	1	02/15/21 13:40	02/16/21 17:20	85-01-8	1c
Pyrene	ND	ug/L	0.12	0.026	1	02/15/21 13:40	02/16/21 17:20	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	57	%.	19-92		1	02/15/21 13:40	02/16/21 17:20	321-60-8	
Terphenyl-d14 (S)	70	%.	55-109		1	02/15/21 13:40	02/16/21 17:20	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/23/21 16:08	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		02/23/21 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%.	70-130		1		02/23/21 16:08	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		1		02/23/21 16:08	2037-26-5	
Dibromofluoromethane (S)	107	%.	70-130		1		02/23/21 16:08	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Trip Blank 4 **Lab ID: 30405879034** Collected: 02/11/21 00:01 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 13:13	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	70-130		1		02/24/21 13:13	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1		02/24/21 13:13	17060-07-0	
Toluene-d8 (S)	98	%.	70-130		1		02/24/21 13:13	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		02/24/21 13:13	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Sample: Trip Blank 5 **Lab ID: 30405879035** Collected: 02/11/21 00:01 Received: 02/12/21 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 13:41	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	106	%.	70-130		1		02/24/21 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%.	70-130		1		02/24/21 13:41	17060-07-0	
Toluene-d8 (S)	94	%.	70-130		1		02/24/21 13:41	2037-26-5	
Dibromofluoromethane (S)	115	%.	70-130		1		02/24/21 13:41	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435207
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

METHOD BLANK: 2101117 Matrix: Solid
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.39	02/17/21 11:26	
Lead	mg/kg	ND	1.0	0.45	02/17/21 11:26	

LABORATORY CONTROL SAMPLE: 2101118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49	48.2	98	80-120	
Lead	mg/kg	49	47.1	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101120 2101121

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	6.3	55.6	55.6	56.6	56.8	91	91	75-125	0	20	
Lead	mg/kg	12.5	55.6	55.6	68.6	67.0	101	98	75-125	2	20	

SAMPLE DUPLICATE: 2101119

Parameter	Units	30405475019 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	6.3	8.3	27	20	D6
Lead	mg/kg	12.5	15.0	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435404 Analysis Method: EPA 6010D
QC Batch Method: EPA 3005A Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

METHOD BLANK: 2101937 Matrix: Water
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	02/19/21 10:00	
Lead	mg/L	ND	0.025	0.0031	02/19/21 10:00	

METHOD BLANK: 2100601 Matrix: Water
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	02/19/21 10:59	
Lead	mg/L	ND	0.025	0.0031	02/19/21 10:59	

LABORATORY CONTROL SAMPLE: 2101938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.53	106	80-120	
Lead	mg/L	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101940 2101941

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.52	0.53	102	104	75-125	2	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.51	100	101	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101943 2101944

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.52	103	103	75-125	1	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.50	100	99	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101946 2101947

Parameter	Units	30405879009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.52	101	105	75-125	3	20	
Lead	mg/L	ND	0.5	0.5	0.50	0.51	99	102	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101949 2101950

Parameter	Units	30405879025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.52	0.51	104	102	75-125	2	20	
Lead	mg/L	ND	0.5	0.5	0.51	0.49	101	99	75-125	3	20	

SAMPLE DUPLICATE: 2101939

Parameter	Units	30405475008 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	.0057J		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101942

Parameter	Units	30405475019 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101945

Parameter	Units	30405879009 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 2101948

Parameter	Units	30405879025 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	
Lead	mg/L	ND	ND		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435200
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879016, 30405879017, 30405879032, 30405879033

METHOD BLANK: 2101082 Matrix: Water
Associated Lab Samples: 30405879016, 30405879017, 30405879032, 30405879033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	3.3	02/17/21 09:53	
Lead	ug/L	ND	10.0	3.1	02/17/21 09:53	
Total Hardness by SM2340B-2011	ug/L	-35			02/17/21 09:53	

LABORATORY CONTROL SAMPLE: 2101083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	506	101	80-120	
Lead	ug/L	500	495	99	80-120	
Total Hardness by SM2340B-2011	ug/L		30600			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101085 2101086

Parameter	Units	30405528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	545	531	109	106	75-125	3	20	
Lead	ug/L	ND	500	500	514	506	103	101	75-125	1	20	
Total Hardness by SM2340B-2011	ug/L	131000			164000	163000				0		

SAMPLE DUPLICATE: 2101084

Parameter	Units	30405528001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	131000	132000	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435644
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

METHOD BLANK: 2102931 Matrix: Solid
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/kg	ND	5.0	0.94	02/19/21 11:11	
1,2-Dichloroethane-d4 (S)	%.	104	70-130		02/19/21 11:11	
4-Bromofluorobenzene (S)	%.	98	70-130		02/19/21 11:11	
Dibromofluoromethane (S)	%.	100	70-130		02/19/21 11:11	
Toluene-d8 (S)	%.	97	70-130		02/19/21 11:11	

LABORATORY CONTROL SAMPLE: 2102932

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	20	16.2	81	65-110	
1,2-Dichloroethane-d4 (S)	%.			99	70-130	
4-Bromofluorobenzene (S)	%.			97	70-130	
Dibromofluoromethane (S)	%.			100	70-130	
Toluene-d8 (S)	%.			98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435567 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

METHOD BLANK: 2101414 Matrix: Solid
Associated Lab Samples: 30405879001, 30405879009, 30405879011, 30405879013, 30405879025, 30405879027, 30405879029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorobenzene	ug/L	ND	50.0	7.8	02/19/21 10:56	
Naphthalene	ug/L	ND	50.0	9.4	02/19/21 10:56	
Tetrachloroethene	ug/L	ND	50.0	17.3	02/19/21 10:56	
1,2-Dichloroethane-d4 (S)	%.	92	70-130		02/19/21 10:56	
4-Bromofluorobenzene (S)	%.	101	70-130		02/19/21 10:56	
Dibromofluoromethane (S)	%.	99	70-130		02/19/21 10:56	
Toluene-d8 (S)	%.	98	70-130		02/19/21 10:56	

LABORATORY CONTROL SAMPLE: 2102704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	20	17.3	86	63-119	
Naphthalene	ug/L	20	14.7	74	65-110	
Tetrachloroethene	ug/L	20	18.0	90	57-124	
1,2-Dichloroethane-d4 (S)	%.			96	70-130	
4-Bromofluorobenzene (S)	%.			92	70-130	
Dibromofluoromethane (S)	%.			106	70-130	
Toluene-d8 (S)	%.			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102701 2102702

Parameter	Units	30405475008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	193	197	96	98	10-139	2	30	
Naphthalene	ug/L	ND	200	200	140	167	70	83	10-154	17	30	
Tetrachloroethene	ug/L	ND	200	200	203	207	101	103	10-144	2	30	
1,2-Dichloroethane-d4 (S)	%.						93	93	70-130			
4-Bromofluorobenzene (S)	%.						100	97	70-130			
Dibromofluoromethane (S)	%.						96	100	70-130			
Toluene-d8 (S)	%.						98	98	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102703 2102724

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	180	196	90	98	10-139	9	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102703 2102724

Parameter	Units	30405475019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	200	200	139	150	65	71	10-154	8	30	
Tetrachloroethene	ug/L	ND	200	200	196	216	98	108	10-144	9	30	
1,2-Dichloroethane-d4 (S)	%.						92	96	70-130			
4-Bromofluorobenzene (S)	%.						97	97	70-130			
Dibromofluoromethane (S)	%.						105	103	70-130			
Toluene-d8 (S)	%.						98	102	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102705 2102725

Parameter	Units	30405879009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	173	187	86	93	10-139	8	30	
Naphthalene	ug/L	ND	200	200	129	155	64	78	10-154	19	30	
Tetrachloroethene	ug/L	ND	200	200	187	198	94	99	10-144	6	30	
1,2-Dichloroethane-d4 (S)	%.						93	94	70-130			
4-Bromofluorobenzene (S)	%.						98	96	70-130			
Dibromofluoromethane (S)	%.						97	103	70-130			
Toluene-d8 (S)	%.						100	99	70-130			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2102706 2102726

Parameter	Units	30405879025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	188	190	94	95	10-139	1	30	
Naphthalene	ug/L	ND	200	200	147	154	70	73	10-154	5	30	
Tetrachloroethene	ug/L	ND	200	200	202	210	101	105	10-144	4	30	
1,2-Dichloroethane-d4 (S)	%.						96	95	70-130			
4-Bromofluorobenzene (S)	%.						101	96	70-130			
Dibromofluoromethane (S)	%.						109	98	70-130			
Toluene-d8 (S)	%.						100	112	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435982
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879016, 30405879017, 30405879018, 30405879019, 30405879032, 30405879033

METHOD BLANK: 2104379 Matrix: Water
Associated Lab Samples: 30405879016, 30405879017, 30405879018, 30405879019, 30405879032, 30405879033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	0.82	02/23/21 11:36	
1,2-Dichloroethane-d4 (S)	%.	113	70-130		02/23/21 11:36	
4-Bromofluorobenzene (S)	%.	99	70-130		02/23/21 11:36	
Dibromofluoromethane (S)	%.	109	70-130		02/23/21 11:36	
Toluene-d8 (S)	%.	94	70-130		02/23/21 11:36	

LABORATORY CONTROL SAMPLE: 2104380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	21.0	105	55-160	
1,2-Dichloroethane-d4 (S)	%.			108	70-130	
4-Bromofluorobenzene (S)	%.			100	70-130	
Dibromofluoromethane (S)	%.			104	70-130	
Toluene-d8 (S)	%.			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2104381 2104382

Parameter	Units	30406005002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	18.0	18.6	90	93	30-157	3	30	
1,2-Dichloroethane-d4 (S)	%.						105	110	70-130			
4-Bromofluorobenzene (S)	%.						100	94	70-130			
Dibromofluoromethane (S)	%.						99	102	70-130			
Toluene-d8 (S)	%.						99	101	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 436167
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879034, 30405879035

METHOD BLANK: 2105127 Matrix: Water
Associated Lab Samples: 30405879034, 30405879035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	0.82	02/24/21 12:18	
1,2-Dichloroethane-d4 (S)	%.	108	70-130		02/24/21 12:18	
4-Bromofluorobenzene (S)	%.	98	70-130		02/24/21 12:18	
Dibromofluoromethane (S)	%.	109	70-130		02/24/21 12:18	
Toluene-d8 (S)	%.	94	70-130		02/24/21 12:18	

LABORATORY CONTROL SAMPLE: 2105128

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	20.7	104	55-160	
1,2-Dichloroethane-d4 (S)	%.			101	70-130	
4-Bromofluorobenzene (S)	%.			104	70-130	
Dibromofluoromethane (S)	%.			105	70-130	
Toluene-d8 (S)	%.			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2105559 2105560

Parameter	Units	30405806010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	24.1	23.7	121	118	30-157	2	30	
1,2-Dichloroethane-d4 (S)	%.						101	110	70-130			
4-Bromofluorobenzene (S)	%.						100	96	70-130			
Dibromofluoromethane (S)	%.						96	92	70-130			
Toluene-d8 (S)	%.						108	105	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 434879
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879016, 30405879017, 30405879032, 30405879033

METHOD BLANK: 2100052 Matrix: Water
Associated Lab Samples: 30405879016, 30405879017, 30405879032, 30405879033

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	02/16/21 13:59	
Acenaphthylene	ug/L	ND	0.10	0.021	02/16/21 13:59	
Anthracene	ug/L	ND	0.10	0.022	02/16/21 13:59	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	02/16/21 13:59	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	02/16/21 13:59	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	02/16/21 13:59	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Chrysene	ug/L	ND	0.10	0.033	02/16/21 13:59	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	02/16/21 13:59	
Fluoranthene	ug/L	ND	0.10	0.020	02/16/21 13:59	
Fluorene	ug/L	ND	0.10	0.022	02/16/21 13:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	02/16/21 13:59	
Naphthalene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Phenanthrene	ug/L	ND	0.10	0.027	02/16/21 13:59	
Pyrene	ug/L	ND	0.10	0.021	02/16/21 13:59	
2-Fluorobiphenyl (S)	%.	48	19-92		02/16/21 13:59	
Terphenyl-d14 (S)	%.	64	55-109		02/16/21 13:59	

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.2	58	29-110	
Acenaphthylene	ug/L	2	1.1	55	28-121	
Anthracene	ug/L	2	1.2	59	40-115	
Benzo(a)anthracene	ug/L	2	1.5	76	63-119	
Benzo(a)pyrene	ug/L	2	1.6	79	56-121	
Benzo(b)fluoranthene	ug/L	2	1.8	88	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.6	81	53-123	
Benzo(k)fluoranthene	ug/L	2	1.5	76	57-121	
Chrysene	ug/L	2	1.5	76	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.7	86	55-125	
Fluoranthene	ug/L	2	1.4	72	55-121	
Fluorene	ug/L	2	1.2	58	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	84	56-124	
Naphthalene	ug/L	2	1.1	57	26-104	
Phenanthrene	ug/L	2	1.2	61	38-112	
Pyrene	ug/L	2	1.4	72	56-119	
2-Fluorobiphenyl (S)	%.			54	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			78	55-109	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435762
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879002, 30405879010, 30405879012, 30405879014, 30405879026, 30405879028, 30405879030

METHOD BLANK: 2103681 Matrix: Water
Associated Lab Samples: 30405879002, 30405879010, 30405879012, 30405879014, 30405879026, 30405879028, 30405879030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	02/22/21 14:38	
Acenaphthylene	ug/L	ND	0.10	0.021	02/22/21 14:38	
Anthracene	ug/L	ND	0.10	0.022	02/22/21 14:38	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	02/22/21 14:38	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	02/22/21 14:38	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	02/22/21 14:38	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	02/22/21 14:38	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	02/22/21 14:38	
Chrysene	ug/L	ND	0.10	0.033	02/22/21 14:38	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	02/22/21 14:38	
Fluoranthene	ug/L	ND	0.10	0.020	02/22/21 14:38	
Fluorene	ug/L	ND	0.10	0.022	02/22/21 14:38	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	02/22/21 14:38	
Naphthalene	ug/L	ND	0.10	0.042	02/22/21 14:38	
Phenanthrene	ug/L	ND	0.10	0.027	02/22/21 14:38	
Pyrene	ug/L	ND	0.10	0.021	02/22/21 14:38	
2-Fluorobiphenyl (S)	%.	43	19-92		02/22/21 14:38	
Terphenyl-d14 (S)	%.	58	55-109		02/22/21 14:38	

LABORATORY CONTROL SAMPLE: 2103682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.1	53	29-110	
Acenaphthylene	ug/L	2	1.0	50	28-121	
Anthracene	ug/L	2	0.97	49	40-115	
Benzo(a)anthracene	ug/L	2	1.2	62	63-119	L2
Benzo(a)pyrene	ug/L	2	0.97	48	56-121	L2
Benzo(b)fluoranthene	ug/L	2	1.5	74	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.3	66	53-123	
Benzo(k)fluoranthene	ug/L	2	1.3	63	57-121	
Chrysene	ug/L	2	1.3	67	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.4	71	55-125	
Fluoranthene	ug/L	2	1.2	58	55-121	
Fluorene	ug/L	2	1.1	54	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	69	56-124	
Naphthalene	ug/L	2	1.1	55	26-104	
Phenanthrene	ug/L	2	1.1	55	38-112	
Pyrene	ug/L	2	1.2	58	56-119	
2-Fluorobiphenyl (S)	%.			47	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

LABORATORY CONTROL SAMPLE: 2103682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			63	55-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103683 2103684

Parameter	Units	30405475009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	0.10	2	2	1.1	1.3	50	60	10-125	17	20	
Acenaphthylene	ug/L	ND	2	2	1.1	1.3	53	63	21-116	17	20	
Anthracene	ug/L	ND	2	2	1.1	1.3	53	67	26-114	22	20	R1
Benzo(a)anthracene	ug/L	ND	2	2	1.4	1.6	67	78	39-123	15	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.3	1.5	65	76	24-126	16	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	1.4	63	72	24-135	13	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.1	1.3	55	65	10-132	18	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.2	1.4	60	71	25-123	18	20	
Chrysene	ug/L	ND	2	2	1.2	1.4	60	70	38-113	16	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.2	1.4	59	71	13-122	17	20	
Fluoranthene	ug/L	ND	2	2	1.2	1.5	59	75	32-123	23	20	R1
Fluorene	ug/L	ND	2	2	1.1	1.3	51	63	10-134	20	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.2	1.4	60	70	10-132	17	20	
Naphthalene	ug/L	0.22	2	2	1.1	1.3	46	56	17-98	16	20	
Phenanthrene	ug/L	0.14	2	2	1.1	1.4	50	65	26-116	22	20	R1
Pyrene	ug/L	ND	2	2	1.2	1.5	59	75	31-125	23	20	R1
2-Fluorobiphenyl (S)	%.						44	52	19-92		20	
Terphenyl-d14 (S)	%.						61	74	55-109		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103685 2103686

Parameter	Units	30405475020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	0.96	1.1	48	56	10-125	16	20	
Acenaphthylene	ug/L	ND	2	2	0.94	1.1	47	54	21-116	15	20	
Anthracene	ug/L	ND	2	2	0.92	1.1	46	55	26-114	18	20	
Benzo(a)anthracene	ug/L	ND	2	2	1.1	1.2	57	61	39-123	7	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.1	1.2	53	58	24-126	8	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.1	1.3	54	65	24-135	18	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	0.95	1.1	47	53	10-132	11	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.1	1.1	54	56	25-123	4	20	
Chrysene	ug/L	ND	2	2	1.1	1.2	54	59	38-113	9	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	0.99	1.1	49	55	13-122	11	20	
Fluoranthene	ug/L	ND	2	2	1.0	1.2	52	60	32-123	14	20	
Fluorene	ug/L	ND	2	2	0.96	1.1	48	57	10-134	18	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.0	1.1	50	56	10-132	10	20	
Naphthalene	ug/L	ND	2	2	0.94	1.1	46	56	17-98	19	20	
Phenanthrene	ug/L	ND	2	2	0.95	1.1	47	56	26-116	18	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103685 2103686

Parameter	Units	30405475020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Pyrene	ug/L	ND	2	2	1.0	1.2	52	59	31-125	13	20	
2-Fluorobiphenyl (S)	%.						42	49	19-92		20	
Terphenyl-d14 (S)	%.						51	57	55-109		20	SR

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103687 2103688

Parameter	Units	30405879010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	1.0	1.2	51	59	10-125	14	20	
Acenaphthylene	ug/L	ND	2	2	0.99	1.1	49	56	21-116	14	20	
Anthracene	ug/L	ND	2	2	1.1	1.1	52	57	26-114	8	20	
Benzo(a)anthracene	ug/L	ND	2	2	1.4	1.3	68	65	39-123	5	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.2	1.2	61	60	24-126	3	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.3	1.2	64	62	24-135	4	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.1	1.1	54	54	10-132	0	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.3	1.2	65	61	25-123	6	20	
Chrysene	ug/L	ND	2	2	1.4	1.3	70	66	38-113	6	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.2	1.1	61	56	13-122	9	20	
Fluoranthene	ug/L	ND	2	2	1.3	1.2	65	62	32-123	4	20	
Fluorene	ug/L	ND	2	2	1.0	1.2	52	59	10-134	13	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.2	1.2	59	57	10-132	3	20	
Naphthalene	ug/L	ND	2	2	1.0	1.2	51	58	17-98	14	20	
Phenanthrene	ug/L	ND	2	2	1.1	1.2	54	59	26-116	9	20	
Pyrene	ug/L	ND	2	2	1.3	1.3	66	62	31-125	6	20	
2-Fluorobiphenyl (S)	%.						46	52	19-92		20	
Terphenyl-d14 (S)	%.						68	63	55-109		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103689 2103690

Parameter	Units	30405879026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	0.75	1.2	38	59	10-125	44	20	R1
Acenaphthylene	ug/L	ND	2	2	0.75	1.2	37	59	21-116	45	20	R1
Anthracene	ug/L	ND	2	2	0.80	1.2	40	59	26-114	39	20	R1
Benzo(a)anthracene	ug/L	ND	2	2	1.2	1.4	58	69	39-123	17	20	
Benzo(a)pyrene	ug/L	ND	2	2	1.1	1.3	57	67	24-126	15	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	1.2	1.4	60	70	24-135	16	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.0	1.2	52	60	10-132	15	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	1.1	1.4	57	68	25-123	18	20	
Chrysene	ug/L	ND	2	2	1.1	1.4	56	69	38-113	20	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	1.1	1.3	55	63	13-122	15	20	
Fluoranthene	ug/L	ND	2	2	1.0	1.3	51	65	32-123	24	20	R1
Fluorene	ug/L	ND	2	2	0.78	1.2	39	60	10-134	43	20	R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2103689 2103690

Parameter	Units	30405879026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	1.1	1.3	56	64	10-132	14	20	
Naphthalene	ug/L	ND	2	2	0.75	1.2	36	58	17-98	44	20	R1
Phenanthrene	ug/L	ND	2	2	0.82	1.2	40	59	26-116	37	20	R1
Pyrene	ug/L	ND	2	2	1.0	1.3	52	67	31-125	25	20	R1
2-Fluorobiphenyl (S)	%.						32	52	19-92		20	
Terphenyl-d14 (S)	%.						54	66	55-109		20	SR

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 436066
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

METHOD BLANK: 2104732 Matrix: Solid
Associated Lab Samples: 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.5	0.59	02/25/21 17:04	
Acenaphthylene	ug/kg	ND	6.5	0.47	02/25/21 17:04	
Anthracene	ug/kg	ND	6.5	0.59	02/25/21 17:04	
Benzo(a)anthracene	ug/kg	ND	6.5	0.77	02/25/21 17:04	
Benzo(a)pyrene	ug/kg	ND	6.5	0.41	02/25/21 17:04	
Benzo(b)fluoranthene	ug/kg	ND	6.5	0.78	02/25/21 17:04	
Benzo(g,h,i)perylene	ug/kg	ND	6.5	0.99	02/25/21 17:04	
Benzo(k)fluoranthene	ug/kg	ND	6.5	1.1	02/25/21 17:04	
Chrysene	ug/kg	ND	6.5	0.34	02/25/21 17:04	
Dibenz(a,h)anthracene	ug/kg	ND	6.5	1.5	02/25/21 17:04	
Fluoranthene	ug/kg	ND	6.5	0.50	02/25/21 17:04	
Fluorene	ug/kg	ND	6.5	0.61	02/25/21 17:04	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.5	1.2	02/25/21 17:04	
Naphthalene	ug/kg	ND	6.5	1.3	02/25/21 17:04	
Phenanthrene	ug/kg	ND	6.5	0.58	02/25/21 17:04	
Pyrene	ug/kg	ND	6.5	0.73	02/25/21 17:04	
2-Fluorobiphenyl (S)	%.	49	37-88		02/25/21 17:04	
Terphenyl-d14 (S)	%.	86	10-128		02/25/21 17:04	

LABORATORY CONTROL SAMPLE: 2104733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	131	107	82	47-104	
Acenaphthylene	ug/kg	131	137	105	49-115	
Anthracene	ug/kg	131	110	84	52-115	
Benzo(a)anthracene	ug/kg	131	118	91	54-130	
Benzo(a)pyrene	ug/kg	131	121	92	59-126	
Benzo(b)fluoranthene	ug/kg	131	125	96	55-133	
Benzo(g,h,i)perylene	ug/kg	131	121	92	54-127	
Benzo(k)fluoranthene	ug/kg	131	114	88	56-120	
Chrysene	ug/kg	131	116	89	56-115	
Dibenz(a,h)anthracene	ug/kg	131	122	93	55-129	
Fluoranthene	ug/kg	131	116	89	56-125	
Fluorene	ug/kg	131	110	84	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	131	119	91	55-129	
Naphthalene	ug/kg	131	104	79	45-102	
Phenanthrene	ug/kg	131	109	83	50-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

LABORATORY CONTROL SAMPLE: 2104733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	131	116	89	56-122	
2-Fluorobiphenyl (S)	%.			85	37-88	
Terphenyl-d14 (S)	%.			95	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2104734 2104735

Parameter	Units	30405879003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	156	157	135	142	84	88	24-109	5	20	
Acenaphthylene	ug/kg	ND	156	157	136	135	88	86	26-119	1	20	
Anthracene	ug/kg	ND	156	157	143	142	91	90	32-115	1	20	
Benzo(a)anthracene	ug/kg	ND	156	157	151	153	95	96	30-133	1	20	
Benzo(a)pyrene	ug/kg	ND	156	157	152	148	97	94	11-151	3	20	
Benzo(b)fluoranthene	ug/kg	ND	156	157	154	155	98	98	25-140	0	20	
Benzo(g,h,i)perylene	ug/kg	ND	156	157	133	130	85	82	10-126	3	20	
Benzo(k)fluoranthene	ug/kg	ND	156	157	146	141	94	90	25-127	4	20	
Chrysene	ug/kg	ND	156	157	145	147	92	93	10-142	1	20	
Dibenz(a,h)anthracene	ug/kg	ND	156	157	139	133	90	85	13-127	4	20	
Fluoranthene	ug/kg	ND	156	157	157	183	96	112	20-139	15	20	
Fluorene	ug/kg	ND	156	157	142	148	89	92	28-114	4	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	156	157	137	132	88	84	15-123	4	20	
Naphthalene	ug/kg	ND	156	157	131	137	80	83	15-104	4	20	
Phenanthrene	ug/kg	13.2	156	157	157	199	93	118	10-135	23	20	R1
Pyrene	ug/kg	ND	156	157	154	171	96	106	13-139	11	20	
2-Fluorobiphenyl (S)	%.						86	84	37-88			
Terphenyl-d14 (S)	%.						101	96	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405879

QC Batch: 435155
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405879001, 30405879003, 30405879004, 30405879005, 30405879006, 30405879007, 30405879008, 30405879009, 30405879011, 30405879013, 30405879015, 30405879020, 30405879021, 30405879022, 30405879023, 30405879024, 30405879025, 30405879027, 30405879029, 30405879031

SAMPLE DUPLICATE: 2100913

Parameter	Units	30405879001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.6	12.1	4	20	

SAMPLE DUPLICATE: 2100914

Parameter	Units	30405879003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.9	15.5	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: FOC River Trail 60589127
Pace Project No.: 30405879

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 434879

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 435644

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405879003	**SSB-02(2'-8')**	EPA 3050B	435207	EPA 6010D	435256
30405879004	**SSS-03(0'-2')**	EPA 3050B	435207	EPA 6010D	435256
30405879005	**SSB-03(2'-8')**	EPA 3050B	435207	EPA 6010D	435256
30405879006	**SSB-03(2'-8')DUP**	EPA 3050B	435207	EPA 6010D	435256
30405879007	**SSS-04(0'-2')**	EPA 3050B	435207	EPA 6010D	435256
30405879008	**SSB-04(2'-8')**	EPA 3050B	435207	EPA 6010D	435256
30405879015	**SSB-05(2'-8')**	EPA 3050B	435207	EPA 6010D	435256
30405879020	**SSS-06 (0'-2')**	EPA 3050B	435207	EPA 6010D	435256
30405879021	**SSB-06 (2'-8')**	EPA 3050B	435207	EPA 6010D	435256
30405879022	**SSS-07 (0'-2')**	EPA 3050B	435207	EPA 6010D	435256
30405879023	**SSB-07 (2'-8')**	EPA 3050B	435207	EPA 6010D	435256
30405879024	**SSB-07 (2'-8')DUP**	EPA 3050B	435207	EPA 6010D	435256
30405879031	**SSB-08 (2'-8')**	EPA 3050B	435207	EPA 6010D	435256
30405879001	**SSS-02(0'-2')**	EPA 3005A	435404	EPA 6010D	435435
30405879009	**SSB-05(0'-2')**	EPA 3005A	435404	EPA 6010D	435435
30405879011	**SSB-05(0'-2')MS**	EPA 3005A	435404	EPA 6010D	435435
30405879013	**SSB-05(0'-2')MSD**	EPA 3005A	435404	EPA 6010D	435435
30405879025	**SSS-08 (0'-2')**	EPA 3005A	435404	EPA 6010D	435435
30405879027	**SSS-08 (0'-2')MS**	EPA 3005A	435404	EPA 6010D	435435
30405879029	**SSS-08 (0'-2')MSD**	EPA 3005A	435404	EPA 6010D	435435
30405879016	**Equipment Blank 3**	EPA 3005A	435200	EPA 6010D	435251
30405879017	**Field Blank 3**	EPA 3005A	435200	EPA 6010D	435251
30405879032	**Equipment Blank 4**	EPA 3005A	435200	EPA 6010D	435251
30405879033	**Field Blank 4**	EPA 3005A	435200	EPA 6010D	435251
30405879002	**SSS-02(0'-2')(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879010	**SSB-05(0'-2')(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879012	**SSB-05(0'-2')MS(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879014	**SSB-05(0'-2')MSD(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879016	**Equipment Blank 3**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405879017	**Field Blank 3**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405879026	**SSS-08 (0'-2')(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879028	**SSS-08 (0'-2')MS(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879030	**SSS-08 (0'-2')MSD(SPLP)**	EPA 3510C	435762	EPA 8270E By SIM	435854
30405879032	**Equipment Blank 4**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405879033	**Field Blank 4**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405879003	**SSB-02(2'-8')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879004	**SSS-03(0'-2')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879005	**SSB-03(2'-8')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879006	**SSB-03(2'-8')DUP**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879007	**SSS-04(0'-2')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879008	**SSB-04(2'-8')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879015	**SSB-05(2'-8')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879020	**SSS-06 (0'-2')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879021	**SSB-06 (2'-8')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879022	**SSS-07 (0'-2')**	EPA 3546	436066	EPA 8270E by SIM	436247

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405879023	**SSB-07 (2'-8')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879024	**SSB-07 (2'-8')DUP**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879031	**SSB-08 (2'-8')**	EPA 3546	436066	EPA 8270E by SIM	436247
30405879003	**SSB-02(2'-8')**	EPA 5035A	435644	EPA 8260B	435654
30405879004	**SSS-03(0'-2')**	EPA 5035A	435644	EPA 8260B	435654
30405879005	**SSB-03(2'-8')**	EPA 5035A	435644	EPA 8260B	435654
30405879006	**SSB-03(2'-8')DUP**	EPA 5035A	435644	EPA 8260B	435654
30405879007	**SSS-04(0'-2')**	EPA 5035A	435644	EPA 8260B	435654
30405879008	**SSB-04(2'-8')**	EPA 5035A	435644	EPA 8260B	435654
30405879015	**SSB-05(2'-8')**	EPA 5035A	435644	EPA 8260B	435654
30405879020	**SSS-06 (0'-2')**	EPA 5035A	435644	EPA 8260B	435654
30405879021	**SSB-06 (2'-8')**	EPA 5035A	435644	EPA 8260B	435654
30405879022	**SSS-07 (0'-2')**	EPA 5035A	435644	EPA 8260B	435654
30405879023	**SSB-07 (2'-8')**	EPA 5035A	435644	EPA 8260B	435654
30405879024	**SSB-07 (2'-8')DUP**	EPA 5035A	435644	EPA 8260B	435654
30405879031	**SSB-08 (2'-8')**	EPA 5035A	435644	EPA 8260B	435654
30405879001	**SSS-02(0'-2')**	EPA 8260B	435567		
30405879009	**SSB-05(0'-2')**	EPA 8260B	435567		
30405879011	**SSB-05(0'-2')MS**	EPA 8260B	435567		
30405879013	**SSB-05(0'-2')MSD**	EPA 8260B	435567		
30405879025	**SSS-08 (0'-2')**	EPA 8260B	435567		
30405879027	**SSS-08 (0'-2')MS**	EPA 8260B	435567		
30405879029	**SSS-08 (0'-2')MSD**	EPA 8260B	435567		
30405879016	**Equipment Blank 3**	EPA 8260C	435982		
30405879017	**Field Blank 3**	EPA 8260C	435982		
30405879018	**Trip Blank 2**	EPA 8260C	435982		
30405879019	**Trip Blank 3**	EPA 8260C	435982		
30405879032	**Equipment Blank 4**	EPA 8260C	435982		
30405879033	**Field Blank 4**	EPA 8260C	435982		
30405879034	**Trip Blank 4**	EPA 8260C	436167		
30405879035	**Trip Blank 5**	EPA 8260C	436167		
30405879001	**SSS-02(0'-2')**	ASTM D2974-87	435155		
30405879003	**SSB-02(2'-8')**	ASTM D2974-87	435155		
30405879004	**SSS-03(0'-2')**	ASTM D2974-87	435155		
30405879005	**SSB-03(2'-8')**	ASTM D2974-87	435155		
30405879006	**SSB-03(2'-8')DUP**	ASTM D2974-87	435155		
30405879007	**SSS-04(0'-2')**	ASTM D2974-87	435155		
30405879008	**SSB-04(2'-8')**	ASTM D2974-87	435155		
30405879009	**SSB-05(0'-2')**	ASTM D2974-87	435155		
30405879011	**SSB-05(0'-2')MS**	ASTM D2974-87	435155		
30405879013	**SSB-05(0'-2')MSD**	ASTM D2974-87	435155		
30405879015	**SSB-05(2'-8')**	ASTM D2974-87	435155		
30405879020	**SSS-06 (0'-2')**	ASTM D2974-87	435155		
30405879021	**SSB-06 (2'-8')**	ASTM D2974-87	435155		
30405879022	**SSS-07 (0'-2')**	ASTM D2974-87	435155		
30405879023	**SSB-07 (2'-8')**	ASTM D2974-87	435155		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405879024	**SSB-07 (2'-8')DUP**	ASTM D2974-87	435155		
30405879025	**SSS-08 (0'-2')**	ASTM D2974-87	435155		
30405879027	**SSS-08 (0'-2')MS**	ASTM D2974-87	435155		
30405879029	**SSS-08 (0'-2')MSD**	ASTM D2974-87	435155		
30405879031	**SSB-08 (2'-8')**	ASTM D2974-87	435155		

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or

WO# : 30405879

30405879

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Cheat River Trail
Customer Project Name/Number: FOC River Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Nuzman / Kevin Boston	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Business Days Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs Naphthalene	PAHs + Metals + SVOCs	SPLP Leachate	Trip Blank					Lab Profile/Line:
SSS-02 (0'-2')	SL	G	2/10/21	1435				6	✓	✓	✓						001, 002
SSB-02 (2'-8')	SL	G	2/10/21	1445				5	✓	✓							003
SSS-03 (0'-2')	SL	G	2/10/21	1300				5	✓	✓							004
SSB-03 (2'-8')	SL	G	2/10/21	1310				5	✓	✓							005
SSB-03 (2'-8') Dup	SL	G	2/10/21	1310				5	✓	✓							006
SSS-04 (0'-2')	SL	G	2/10/21	1550				5	✓	✓							007
SSB-04 (2'-8')	SL	G	2/10/21	1600				5	✓	✓							008
SSS-05 (0'-2')	SL	G	2/10/21	1120				6	✓	✓	✓						009, 010
SSS-05 (0'-2') MS	SL	G	2/10/21	1150				6	✓	✓	✓						011, 012
SSS-05 (0'-2') MSD	SL	G	2/10/21	1150				6	✓	✓	✓						013, 014

Analyses

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) [illegible], (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	(N)	NA
Custody Signatures Present	Y	(N)	NA
Collector Signature Present	(Y)	N	NA
Bottles Intact	(Y)	N	NA
Correct Bottles	(Y)	N	NA
Sufficient Volume	(Y)	N	NA
Samples Received on Ice	(Y)	N	NA
VOA - Headspace Acceptable	(Y)	N	NA
USDA Regulated Soils	Y	N	(NA)
Samples in Holding Time	(Y)	N	NA
Residual Chlorine Present	Y	(N)	NA
Cl Strips: _____			
Sample pH Acceptable	(Y)	N	NA
pH Strips: 100101			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:
OSM OSM

Customer Remarks / Special Conditions / Possible Hazards:
Reference AECOM Tables 4-3 and 4-4 for SPLP and other analyses remarks

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ice, Bubble Bags, Terracore kits

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2590301

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 11
Cooler 1 Temp Upon Receipt: 4.6 oC
Cooler 1 Therm Corr. Factor: +0.0 oC
Cooler 1 Corrected Temp: 4.6 oC
Comments:
OSM 2/12/21

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
(AECOM)	2/12/21 0750	PACE	2/12/21 510
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	2/12/21 1240		2/12/21 1240
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: _____ of: _____

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

 # 30405879

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Cheat River Trail
Customer Project Name/Number: FOL River Trail 60589127	State: WV / County/City: Preston / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Newman / Kevin Booth	Purchase Order #: / Quote #: 00071691 / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard 10 Business Day / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOC's Napthalene	PAHs, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Sample # / Comments
SSB-05 (2'-8')	SL	G	2/10/21	1205				5	✓	✓			015
Equipment Blank 3	WT	G	2/10/21	1245				5	✓	✓			016
Field Blank 3	WT	G	2/10/21	1230				5	✓	✓			017
Trip Blank 2	WT	Lab	Lab	Lab				2				X	018
Trip Blank 3	WT	Lab	Lab	Lab				2				X	019
SSS-06 (0'-2')	SL	G	2/11/21	1130				5	✓	✓			020
SSB-06 (2'-8')	SL	G	2/11/21	1140				5	✓	✓			021
SSS-07 (0'-2')	SL	G	2/11/21	1305				5	✓	✓			022
SSB-07 (2'-8')	SL	G	2/11/21	1320				5	✓	✓			023
SSB-07 (2'-8') Dup	SL	G	2/11/21	1320				5	✓	✓			024

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:

Lab Sample # / Comments: see page 1

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2590302

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____oC

Cooler 1 Therm Corr. Factor: _____oC

Cooler 1 Corrected Temp: _____oC

Comments:

Relinquished by/Company: (Signature) (AECOM)	Date/Time: 2/12/21 0750	Received by/Company: (Signature)	Date/Time: 2/12/21 8:10
Relinquished by/Company: (Signature)	Date/Time: 2/12/21 10:40	Received by/Company: (Signature)	Date/Time: 2/12/21 2440
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

Pace Analytical®

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

30405879

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM

Address: 1505 Beech St. Kenova, WV

Report To: Matthew Watson

Copy To:

Customer Project Name/Number: FoC River Trail

Billing Information:

Email To: Matthew.Watson@aecom.com

Site Collection Info/Address: Friends of Cheat River Trail

State: WV / County/City: Preston / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET

Phone:
Email:

Site/Facility ID #:

Compliance Monitoring? [ ] Yes [ ] No

Collected By (print): Jason Newman / Kevin Booton

Purchase Order #:
Quote #: 00071691

DW PWS ID #:
DW Location Code:

Collected By (signature): [signature]

Turnaround Date Required: Standard 10 Business Day

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: ____ [ ] Hold: ____

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: ____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: ____	
Sample pH Acceptable	Y N NA
pH Strips: ____	
Sulfide Present	Y N NA
Lead Acetate Strips: ____	

LAB USE ONLY:
Lab Sample # / Comments: JSM JSM

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs Napthalene	PAH's, Metals, SVOCs	SPLP Leachate	Trip Blank						Lab Sample # / Comments
SSS-08 (0'-2')	SL	G	2/11/21	1430				6	✓	✓	✓							025, 026
SSS-08 (0'-2') MS	SL	G	2/11/21	1450				6	✓	✓	✓							027, 028
SSS-08 (0'-2') MSD	SL	G	2/11/21	1450				6	✓	✓	✓							029, 030
SSB-08 (2'-8')	SL	G	2/11/21	1505				5	✓	✓								031
Equipment Blank 4	WT	G	2/11/21	1250				5	✓	✓								032
Field Blank 4	WT	G	2/11/21	1230				5	✓	✓								033
Trip Blank 4	WT	Lab	Lab					2				✓						034
Trip Blank 5	WT	Lab	Lab					2				✓						035

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2590303

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: ____
Cooler 1 Temp Upon Receipt: ____oC
Cooler 1 Therm Corr. Factor: ____oC
Cooler 1 Corrected Temp: ____oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] (AECOM)	2/12/21 0750	[signature] PACE	2/12/21 8:10
[signature] PACE	2/12/21 12:40	[signature]	2/12/21 1240

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: ____ of: ____

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 03, 2021

Matthew Watson
AECOM
901 W. DuPont Ave.
Belle, WV 25015

RE: Project: FOC River Trail 60589127
Pace Project No.: 30405885

Dear Matthew Watson:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Alexis E. Ozoroski
alexis.ozoroski@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Wanda Davis, AECOM

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30405885001	**SSS-01 (0'-2')**	Solid	02/12/21 10:50	02/12/21 15:45
30405885002	**SSS-01 (0'-2') MS**	Solid	02/12/21 11:20	02/12/21 15:45
30405885003	**SSS-01 (0'-2') MSD**	Solid	02/12/21 11:20	02/12/21 15:45
30405885004	**SSB-01 (2'-8')**	Solid	02/12/21 11:35	02/12/21 15:45
30405885005	**SSB-01 (2'-8') Dup**	Solid	02/12/21 11:35	02/12/21 15:45
30405885006	**Field Blank 5**	Water	02/12/21 10:15	02/12/21 15:45
30405885007	**Equipment Blank 5**	Water	02/12/21 10:05	02/12/21 15:45
30405885008	**Trip Blank**	Water	02/12/21 10:05	02/12/21 15:45

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30405885001	**SSS-01 (0'-2')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885002	**SSS-01 (0'-2') MS**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885003	**SSS-01 (0'-2') MSD**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885004	**SSB-01 (2'-8')**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885005	**SSB-01 (2'-8') Dup**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260B	JEW	5	PASI-PA
		ASTM D2974-87	ZEM	1	PASI-PA
30405885006	**Field Blank 5**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405885007	**Equipment Blank 5**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30405885008	**Trip Blank**	EPA 8260C	JAS	5	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
7 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 435208

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30405885001

R1: RPD value was outside control limits.

- MSD (Lab ID: 2101127)
  - Arsenic

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
2 samples were analyzed for EPA 8270E By SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 434879

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 5 (Lab ID: 30405885007)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: March 03, 2021

Analyte Comments:

QC Batch: 434879

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 5 (Lab ID: 30405885007)
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 5 (Lab ID: 30405885006)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
5 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 436193

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- BLANK (Lab ID: 2105210)
  - 2-Fluorobiphenyl (S)
- MS (Lab ID: 2105212)
  - 2-Fluorobiphenyl (S)
- MSD (Lab ID: 2105213)
  - 2-Fluorobiphenyl (S)
- SSB-01 (2'-8') (Lab ID: 30405885004)
  - 2-Fluorobiphenyl (S)
- SSB-01 (2'-8') Dup (Lab ID: 30405885005)
  - 2-Fluorobiphenyl (S)
- SSS-01 (0'-2') MS (Lab ID: 30405885002)
  - 2-Fluorobiphenyl (S)
- SSS-01 (0'-2') MSD (Lab ID: 30405885003)
  - 2-Fluorobiphenyl (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: March 03, 2021

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8260B**
Description: 8260B MSV 5035 Low Level
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
5 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 435321

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30405885001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2101518)
  - Naphthalene
- MSD (Lab ID: 2101519)
  - Naphthalene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Method: **EPA 8260C**
Description: 8260C MSV
Client: AECOM (Belle, WV)
Date: March 03, 2021

General Information:
3 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSS-01 (0'-2') **Lab ID: 30405885001** Collected: 02/12/21 10:50 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**4.6**	mg/kg	1.2	0.45	1	02/16/21 15:32	02/17/21 11:06	7440-38-2	R1
Lead	**12.1**	mg/kg	1.2	0.52	1	02/16/21 15:32	02/17/21 11:06	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.3	0.75	1	02/25/21 09:07	02/26/21 11:56	83-32-9	
Acenaphthylene	ND	ug/kg	8.3	0.59	1	02/25/21 09:07	02/26/21 11:56	208-96-8	
Anthracene	ND	ug/kg	8.3	0.75	1	02/25/21 09:07	02/26/21 11:56	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.3	0.98	1	02/25/21 09:07	02/26/21 11:56	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.3	0.52	1	02/25/21 09:07	02/26/21 11:56	50-32-8	
Benzo(b)fluoranthene	**10.5**	ug/kg	8.3	1.0	1	02/25/21 09:07	02/26/21 11:56	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	8.3	1.3	1	02/25/21 09:07	02/26/21 11:56	191-24-2	
Benzo(k)fluoranthene	**9.4**	ug/kg	8.3	1.4	1	02/25/21 09:07	02/26/21 11:56	207-08-9	Ip
Chrysene	**8.4**	ug/kg	8.3	0.43	1	02/25/21 09:07	02/26/21 11:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.3	1.8	1	02/25/21 09:07	02/26/21 11:56	53-70-3	
Fluoranthene	ND	ug/kg	8.3	0.63	1	02/25/21 09:07	02/26/21 11:56	206-44-0	
Fluorene	ND	ug/kg	8.3	0.77	1	02/25/21 09:07	02/26/21 11:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.3	1.6	1	02/25/21 09:07	02/26/21 11:56	193-39-5	
Naphthalene	**12.1**	ug/kg	8.3	1.6	1	02/25/21 09:07	02/26/21 11:56	91-20-3	
Phenanthrene	**21.1**	ug/kg	8.3	0.73	1	02/25/21 09:07	02/26/21 11:56	85-01-8	
Pyrene	ND	ug/kg	8.3	0.93	1	02/25/21 09:07	02/26/21 11:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	85	%.	37-88		1	02/25/21 09:07	02/26/21 11:56	321-60-8	
Terphenyl-d14 (S)	89	%.	10-128		1	02/25/21 09:07	02/26/21 11:56	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.7	1.1	1	02/17/21 11:03	02/17/21 14:41	91-20-3	ML
Surrogates									
Toluene-d8 (S)	103	%.	70-130		1	02/17/21 11:03	02/17/21 14:41	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	70-130		1	02/17/21 11:03	02/17/21 14:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1	02/17/21 11:03	02/17/21 14:41	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	02/17/21 11:03	02/17/21 14:41	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**20.3**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSS-01 (0'-2') MS **Lab ID: 30405885002** Collected: 02/12/21 11:20 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**56.0**	mg/kg	1.2	0.45	1	02/16/21 15:32	02/17/21 11:12	7440-38-2	
Lead	**63.2**	mg/kg	1.2	0.52	1	02/16/21 15:32	02/17/21 11:12	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**146**	ug/kg	8.3	0.75	1	02/25/21 09:07	02/26/21 12:15	83-32-9	
Acenaphthylene	**151**	ug/kg	8.3	0.60	1	02/25/21 09:07	02/26/21 12:15	208-96-8	
Anthracene	**156**	ug/kg	8.3	0.76	1	02/25/21 09:07	02/26/21 12:15	120-12-7	
Benzo(a)anthracene	**162**	ug/kg	8.3	0.98	1	02/25/21 09:07	02/26/21 12:15	56-55-3	
Benzo(a)pyrene	**161**	ug/kg	8.3	0.52	1	02/25/21 09:07	02/26/21 12:15	50-32-8	
Benzo(b)fluoranthene	**169**	ug/kg	8.3	1.0	1	02/25/21 09:07	02/26/21 12:15	205-99-2	
Benzo(g,h,i)perylene	**157**	ug/kg	8.3	1.3	1	02/25/21 09:07	02/26/21 12:15	191-24-2	
Benzo(k)fluoranthene	**159**	ug/kg	8.3	1.4	1	02/25/21 09:07	02/26/21 12:15	207-08-9	
Chrysene	**159**	ug/kg	8.3	0.43	1	02/25/21 09:07	02/26/21 12:15	218-01-9	
Dibenz(a,h)anthracene	**157**	ug/kg	8.3	1.9	1	02/25/21 09:07	02/26/21 12:15	53-70-3	
Fluoranthene	**166**	ug/kg	8.3	0.63	1	02/25/21 09:07	02/26/21 12:15	206-44-0	
Fluorene	**156**	ug/kg	8.3	0.77	1	02/25/21 09:07	02/26/21 12:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**158**	ug/kg	8.3	1.6	1	02/25/21 09:07	02/26/21 12:15	193-39-5	
Naphthalene	**154**	ug/kg	8.3	1.6	1	02/25/21 09:07	02/26/21 12:15	91-20-3	
Phenanthrene	**165**	ug/kg	8.3	0.73	1	02/25/21 09:07	02/26/21 12:15	85-01-8	
Pyrene	**164**	ug/kg	8.3	0.94	1	02/25/21 09:07	02/26/21 12:15	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	96	%.	37-88		1	02/25/21 09:07	02/26/21 12:15	321-60-8	ST
Terphenyl-d14 (S)	103	%.	10-128		1	02/25/21 09:07	02/26/21 12:15	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	**6.0**	ug/kg	5.8	1.1	1	02/17/21 11:03	02/17/21 15:03	91-20-3	
Surrogates									
Toluene-d8 (S)	108	%.	70-130		1	02/17/21 11:03	02/17/21 15:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	02/17/21 11:03	02/17/21 15:03	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1	02/17/21 11:03	02/17/21 15:03	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 15:03	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**20.2**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSS-01 (0'-2') MSD **Lab ID: 30405885003** Collected: 02/12/21 11:20 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**70.1**	mg/kg	1.1	0.44	1	02/16/21 15:32	02/17/21 11:14	7440-38-2	
Lead	**67.4**	mg/kg	1.1	0.51	1	02/16/21 15:32	02/17/21 11:14	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**138**	ug/kg	8.1	0.73	1	02/25/21 09:07	02/26/21 12:37	83-32-9	
Acenaphthylene	**143**	ug/kg	8.1	0.58	1	02/25/21 09:07	02/26/21 12:37	208-96-8	
Anthracene	**157**	ug/kg	8.1	0.73	1	02/25/21 09:07	02/26/21 12:37	120-12-7	
Benzo(a)anthracene	**165**	ug/kg	8.1	0.94	1	02/25/21 09:07	02/26/21 12:37	56-55-3	
Benzo(a)pyrene	**163**	ug/kg	8.1	0.50	1	02/25/21 09:07	02/26/21 12:37	50-32-8	
Benzo(b)fluoranthene	**191**	ug/kg	8.1	0.96	1	02/25/21 09:07	02/26/21 12:37	205-99-2	
Benzo(g,h,i)perylene	**171**	ug/kg	8.1	1.2	1	02/25/21 09:07	02/26/21 12:37	191-24-2	
Benzo(k)fluoranthene	**153**	ug/kg	8.1	1.4	1	02/25/21 09:07	02/26/21 12:37	207-08-9	
Chrysene	**166**	ug/kg	8.1	0.42	1	02/25/21 09:07	02/26/21 12:37	218-01-9	
Dibenz(a,h)anthracene	**154**	ug/kg	8.1	1.8	1	02/25/21 09:07	02/26/21 12:37	53-70-3	
Fluoranthene	**175**	ug/kg	8.1	0.61	1	02/25/21 09:07	02/26/21 12:37	206-44-0	
Fluorene	**151**	ug/kg	8.1	0.75	1	02/25/21 09:07	02/26/21 12:37	86-73-7	
Indeno(1,2,3-cd)pyrene	**165**	ug/kg	8.1	1.5	1	02/25/21 09:07	02/26/21 12:37	193-39-5	
Naphthalene	**152**	ug/kg	8.1	1.6	1	02/25/21 09:07	02/26/21 12:37	91-20-3	
Phenanthrene	**186**	ug/kg	8.1	0.71	1	02/25/21 09:07	02/26/21 12:37	85-01-8	
Pyrene	**177**	ug/kg	8.1	0.90	1	02/25/21 09:07	02/26/21 12:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	90	%.	37-88		1	02/25/21 09:07	02/26/21 12:37	321-60-8	ST
Terphenyl-d14 (S)	106	%.	10-128		1	02/25/21 09:07	02/26/21 12:37	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.6	1.0	1	02/17/21 11:03	02/17/21 15:26	91-20-3	
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	02/17/21 11:03	02/17/21 15:26	2037-26-5	
4-Bromofluorobenzene (S)	111	%.	70-130		1	02/17/21 11:03	02/17/21 15:26	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1	02/17/21 11:03	02/17/21 15:26	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 15:26	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**18.0**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSB-01 (2'-8') **Lab ID: 30405885004** Collected: 02/12/21 11:35 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**20.3**	mg/kg	1.1	0.43	1	02/16/21 15:32	02/17/21 11:17	7440-38-2	
Lead	**16.4**	mg/kg	1.1	0.50	1	02/16/21 15:32	02/17/21 11:17	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.9	0.72	1	02/25/21 09:07	02/26/21 13:00	83-32-9	
Acenaphthylene	ND	ug/kg	7.9	0.57	1	02/25/21 09:07	02/26/21 13:00	208-96-8	
Anthracene	ND	ug/kg	7.9	0.72	1	02/25/21 09:07	02/26/21 13:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.9	0.93	1	02/25/21 09:07	02/26/21 13:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.9	0.50	1	02/25/21 09:07	02/26/21 13:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.9	0.95	1	02/25/21 09:07	02/26/21 13:00	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1.2	1	02/25/21 09:07	02/26/21 13:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.9	1.3	1	02/25/21 09:07	02/26/21 13:00	207-08-9	Ip
Chrysene	ND	ug/kg	7.9	0.41	1	02/25/21 09:07	02/26/21 13:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1.8	1	02/25/21 09:07	02/26/21 13:00	53-70-3	
Fluoranthene	ND	ug/kg	7.9	0.60	1	02/25/21 09:07	02/26/21 13:00	206-44-0	
Fluorene	ND	ug/kg	7.9	0.74	1	02/25/21 09:07	02/26/21 13:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	1.5	1	02/25/21 09:07	02/26/21 13:00	193-39-5	
Naphthalene	ND	ug/kg	7.9	1.5	1	02/25/21 09:07	02/26/21 13:00	91-20-3	
Phenanthrene	**9.1**	ug/kg	7.9	0.70	1	02/25/21 09:07	02/26/21 13:00	85-01-8	
Pyrene	ND	ug/kg	7.9	0.89	1	02/25/21 09:07	02/26/21 13:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	96	%.	37-88		1	02/25/21 09:07	02/26/21 13:00	321-60-8	ST
Terphenyl-d14 (S)	102	%.	10-128		1	02/25/21 09:07	02/26/21 13:00	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.2	0.97	1	02/17/21 11:03	02/17/21 15:48	91-20-3	
Surrogates									
Toluene-d8 (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 15:48	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	02/17/21 11:03	02/17/21 15:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 15:48	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	02/17/21 11:03	02/17/21 15:48	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**16.3**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: SSB-01 (2'-8') Dup **Lab ID: 30405885005** Collected: 02/12/21 11:35 Received: 02/12/21 15:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**9.0**	mg/kg	1.2	0.45	1	02/16/21 15:32	02/17/21 11:20	7440-38-2	
Lead	**12.7**	mg/kg	1.2	0.52	1	02/16/21 15:32	02/17/21 11:20	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.8	0.71	1	02/25/21 09:07	02/26/21 13:22	83-32-9	
Acenaphthylene	ND	ug/kg	7.8	0.56	1	02/25/21 09:07	02/26/21 13:22	208-96-8	
Anthracene	ND	ug/kg	7.8	0.71	1	02/25/21 09:07	02/26/21 13:22	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.8	0.92	1	02/25/21 09:07	02/26/21 13:22	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.8	0.49	1	02/25/21 09:07	02/26/21 13:22	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.8	0.94	1	02/25/21 09:07	02/26/21 13:22	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	7.8	1.2	1	02/25/21 09:07	02/26/21 13:22	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.8	1.3	1	02/25/21 09:07	02/26/21 13:22	207-08-9	Ip
Chrysene	ND	ug/kg	7.8	0.40	1	02/25/21 09:07	02/26/21 13:22	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.8	1.7	1	02/25/21 09:07	02/26/21 13:22	53-70-3	
Fluoranthene	ND	ug/kg	7.8	0.59	1	02/25/21 09:07	02/26/21 13:22	206-44-0	
Fluorene	ND	ug/kg	7.8	0.72	1	02/25/21 09:07	02/26/21 13:22	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.8	1.5	1	02/25/21 09:07	02/26/21 13:22	193-39-5	
Naphthalene	ND	ug/kg	7.8	1.5	1	02/25/21 09:07	02/26/21 13:22	91-20-3	
Phenanthrene	ND	ug/kg	7.8	0.69	1	02/25/21 09:07	02/26/21 13:22	85-01-8	
Pyrene	ND	ug/kg	7.8	0.88	1	02/25/21 09:07	02/26/21 13:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	37-88		1	02/25/21 09:07	02/26/21 13:22	321-60-8	ST
Terphenyl-d14 (S)	99	%.	10-128		1	02/25/21 09:07	02/26/21 13:22	1718-51-0	
8260B MSV 5035 Low Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	5.5	1.0	1	02/17/21 11:03	02/17/21 16:10	91-20-3	
Surrogates									
Toluene-d8 (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 16:10	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	70-130		1	02/17/21 11:03	02/17/21 16:10	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	02/17/21 11:03	02/17/21 16:10	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	02/17/21 11:03	02/17/21 16:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**14.9**	%	0.10	0.10	1		02/16/21 18:12		2c

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: Field Blank 5 **Lab ID: 30405885006** Collected: 02/12/21 10:15 Received: 02/12/21 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:16	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:16	7439-92-1	
Total Hardness by SM2340B-2011	**59100**	ug/L			1	02/16/21 15:18	02/17/21 10:16		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	02/15/21 13:40	02/16/21 17:37	83-32-9	1c
Acenaphthylene	ND	ug/L	0.10	0.022	1	02/15/21 13:40	02/16/21 17:37	208-96-8	1c
Anthracene	ND	ug/L	0.10	0.023	1	02/15/21 13:40	02/16/21 17:37	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.10	0.084	1	02/15/21 13:40	02/16/21 17:37	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.10	0.027	1	02/15/21 13:40	02/16/21 17:37	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.10	0.043	1	02/15/21 13:40	02/16/21 17:37	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.032	1	02/15/21 13:40	02/16/21 17:37	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.10	0.043	1	02/15/21 13:40	02/16/21 17:37	207-08-9	1c
Chrysene	ND	ug/L	0.10	0.034	1	02/15/21 13:40	02/16/21 17:37	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.032	1	02/15/21 13:40	02/16/21 17:37	53-70-3	1c
Fluoranthene	ND	ug/L	0.10	0.021	1	02/15/21 13:40	02/16/21 17:37	206-44-0	1c
Fluorene	ND	ug/L	0.10	0.023	1	02/15/21 13:40	02/16/21 17:37	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.034	1	02/15/21 13:40	02/16/21 17:37	193-39-5	1c
Naphthalene	ND	ug/L	0.10	0.044	1	02/15/21 13:40	02/16/21 17:37	91-20-3	1c
Phenanthrene	ND	ug/L	0.10	0.028	1	02/15/21 13:40	02/16/21 17:37	85-01-8	1c
Pyrene	ND	ug/L	0.10	0.021	1	02/15/21 13:40	02/16/21 17:37	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	47	%.	19-92		1	02/15/21 13:40	02/16/21 17:37	321-60-8	
Terphenyl-d14 (S)	58	%.	55-109		1	02/15/21 13:40	02/16/21 17:37	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 13:54	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	70-130		1		02/24/21 13:54	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		02/24/21 13:54	17060-07-0	
Toluene-d8 (S)	93	%.	70-130		1		02/24/21 13:54	2037-26-5	
Dibromofluoromethane (S)	113	%.	70-130		1		02/24/21 13:54	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: Equipment Blank 5 **Lab ID: 30405885007** Collected: 02/12/21 10:05 Received: 02/12/21 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	02/16/21 15:18	02/17/21 10:25	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	02/16/21 15:18	02/17/21 10:25	7439-92-1	
Total Hardness by SM2340B-2011	**59400**	ug/L			1	02/16/21 15:18	02/17/21 10:25		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.024	1	02/15/21 13:40	02/16/21 17:54	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.023	1	02/15/21 13:40	02/16/21 17:54	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.023	1	02/15/21 13:40	02/16/21 17:54	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.086	1	02/15/21 13:40	02/16/21 17:54	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.027	1	02/15/21 13:40	02/16/21 17:54	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.044	1	02/15/21 13:40	02/16/21 17:54	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.032	1	02/15/21 13:40	02/16/21 17:54	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.044	1	02/15/21 13:40	02/16/21 17:54	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.034	1	02/15/21 13:40	02/16/21 17:54	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.033	1	02/15/21 13:40	02/16/21 17:54	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.021	1	02/15/21 13:40	02/16/21 17:54	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.024	1	02/15/21 13:40	02/16/21 17:54	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.035	1	02/15/21 13:40	02/16/21 17:54	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.045	1	02/15/21 13:40	02/16/21 17:54	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.029	1	02/15/21 13:40	02/16/21 17:54	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.022	1	02/15/21 13:40	02/16/21 17:54	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	56	%.	19-92		1	02/15/21 13:40	02/16/21 17:54	321-60-8	
Terphenyl-d14 (S)	61	%.	55-109		1	02/15/21 13:40	02/16/21 17:54	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 14:22	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		02/24/21 14:22	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%.	70-130		1		02/24/21 14:22	17060-07-0	
Toluene-d8 (S)	89	%.	70-130		1		02/24/21 14:22	2037-26-5	
Dibromofluoromethane (S)	106	%.	70-130		1		02/24/21 14:22	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Sample: Trip Blank **Lab ID: 30405885008** Collected: 02/12/21 10:05 Received: 02/12/21 15:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		02/24/21 13:27	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	91	%.	70-130		1		02/24/21 13:27	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1		02/24/21 13:27	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		1		02/24/21 13:27	2037-26-5	
Dibromofluoromethane (S)	103	%.	70-130		1		02/24/21 13:27	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 435208
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

METHOD BLANK: 2101123 Matrix: Solid
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.39	02/17/21 11:00	
Lead	mg/kg	ND	1.0	0.45	02/17/21 11:00	

LABORATORY CONTROL SAMPLE: 2101124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.2	100	80-120	
Lead	mg/kg	50	48.7	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101126 2101127

Parameter	Units	30405885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	4.6	58.1	58.1	56.1	72.1	89	116	75-125	25	20	R1
Lead	mg/kg	12.1	58.1	58.1	63.3	69.3	88	98	75-125	9	20	

SAMPLE DUPLICATE: 2101125

Parameter	Units	30405885001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	4.6	5.4	18	20	
Lead	mg/kg	12.1	10.6	14	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 435200
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885006, 30405885007

METHOD BLANK: 2101082 Matrix: Water
Associated Lab Samples: 30405885006, 30405885007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	3.3	02/17/21 09:53	
Lead	ug/L	ND	10.0	3.1	02/17/21 09:53	
Total Hardness by SM2340B-2011	ug/L	-35			02/17/21 09:53	

LABORATORY CONTROL SAMPLE: 2101083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	506	101	80-120	
Lead	ug/L	500	495	99	80-120	
Total Hardness by SM2340B-2011	ug/L		30600			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101085 2101086

Parameter	Units	30405528001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	545	531	109	106	75-125	3	20	
Lead	ug/L	ND	500	500	514	506	103	101	75-125	1	20	
Total Hardness by SM2340B-2011	ug/L	131000			164000	163000				0		

SAMPLE DUPLICATE: 2101084

Parameter	Units	30405528001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	131000	132000	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 435321
QC Batch Method: EPA 5035A
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

METHOD BLANK: 2101516 Matrix: Solid
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/kg	ND	5.0	0.94	02/17/21 11:21	
1,2-Dichloroethane-d4 (S)	%.	97	70-130		02/17/21 11:21	
4-Bromofluorobenzene (S)	%.	100	70-130		02/17/21 11:21	
Dibromofluoromethane (S)	%.	97	70-130		02/17/21 11:21	
Toluene-d8 (S)	%.	105	70-130		02/17/21 11:21	

LABORATORY CONTROL SAMPLE: 2101517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	20	14.5	72	65-110	
1,2-Dichloroethane-d4 (S)	%.			92	70-130	
4-Bromofluorobenzene (S)	%.			97	70-130	
Dibromofluoromethane (S)	%.			98	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2101518 2101519

Parameter	Units	30405885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/kg	ND	23.2	22.8	6.0	5.4J	8	6	10-154		30	ML
1,2-Dichloroethane-d4 (S)	%.						102	102	70-130			
4-Bromofluorobenzene (S)	%.						101	111	70-130			
Dibromofluoromethane (S)	%.						100	100	70-130			
Toluene-d8 (S)	%.						108	98	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 436175
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885006, 30405885007, 30405885008

METHOD BLANK: 2105153 Matrix: Water
Associated Lab Samples: 30405885006, 30405885007, 30405885008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	0.82	02/24/21 12:32	
1,2-Dichloroethane-d4 (S)	%.	115	70-130		02/24/21 12:32	
4-Bromofluorobenzene (S)	%.	103	70-130		02/24/21 12:32	
Dibromofluoromethane (S)	%.	108	70-130		02/24/21 12:32	
Toluene-d8 (S)	%.	94	70-130		02/24/21 12:32	

LABORATORY CONTROL SAMPLE: 2105154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	20.1	101	55-160	
1,2-Dichloroethane-d4 (S)	%.			102	70-130	
4-Bromofluorobenzene (S)	%.			98	70-130	
Dibromofluoromethane (S)	%.			101	70-130	
Toluene-d8 (S)	%.			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2105537 2105538

Parameter	Units	7360727002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	13.9	20	20	32.8	36.0	94	111	30-157	9	30	
1,2-Dichloroethane-d4 (S)	%.						100	106	70-130			
4-Bromofluorobenzene (S)	%.						108	102	70-130			
Dibromofluoromethane (S)	%.						97	97	70-130			
Toluene-d8 (S)	%.						105	105	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 434879
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885006, 30405885007

METHOD BLANK: 2100052 Matrix: Water
Associated Lab Samples: 30405885006, 30405885007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	02/16/21 13:59	
Acenaphthylene	ug/L	ND	0.10	0.021	02/16/21 13:59	
Anthracene	ug/L	ND	0.10	0.022	02/16/21 13:59	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	02/16/21 13:59	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	02/16/21 13:59	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	02/16/21 13:59	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Chrysene	ug/L	ND	0.10	0.033	02/16/21 13:59	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	02/16/21 13:59	
Fluoranthene	ug/L	ND	0.10	0.020	02/16/21 13:59	
Fluorene	ug/L	ND	0.10	0.022	02/16/21 13:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	02/16/21 13:59	
Naphthalene	ug/L	ND	0.10	0.042	02/16/21 13:59	
Phenanthrene	ug/L	ND	0.10	0.027	02/16/21 13:59	
Pyrene	ug/L	ND	0.10	0.021	02/16/21 13:59	
2-Fluorobiphenyl (S)	%.	48	19-92		02/16/21 13:59	
Terphenyl-d14 (S)	%.	64	55-109		02/16/21 13:59	

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.2	58	29-110	
Acenaphthylene	ug/L	2	1.1	55	28-121	
Anthracene	ug/L	2	1.2	59	40-115	
Benzo(a)anthracene	ug/L	2	1.5	76	63-119	
Benzo(a)pyrene	ug/L	2	1.6	79	56-121	
Benzo(b)fluoranthene	ug/L	2	1.8	88	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.6	81	53-123	
Benzo(k)fluoranthene	ug/L	2	1.5	76	57-121	
Chrysene	ug/L	2	1.5	76	62-109	
Dibenz(a,h)anthracene	ug/L	2	1.7	86	55-125	
Fluoranthene	ug/L	2	1.4	72	55-121	
Fluorene	ug/L	2	1.2	58	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.7	84	56-124	
Naphthalene	ug/L	2	1.1	57	26-104	
Phenanthrene	ug/L	2	1.2	61	38-112	
Pyrene	ug/L	2	1.4	72	56-119	
2-Fluorobiphenyl (S)	%.			54	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

LABORATORY CONTROL SAMPLE: 2100053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			78	55-109	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 436193
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

METHOD BLANK: 2105210 Matrix: Solid
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.7	0.60	02/26/21 11:11	
Acenaphthylene	ug/kg	ND	6.7	0.48	02/26/21 11:11	
Anthracene	ug/kg	ND	6.7	0.61	02/26/21 11:11	
Benzo(a)anthracene	ug/kg	ND	6.7	0.78	02/26/21 11:11	
Benzo(a)pyrene	ug/kg	ND	6.7	0.42	02/26/21 11:11	
Benzo(b)fluoranthene	ug/kg	ND	6.7	0.80	02/26/21 11:11	
Benzo(g,h,i)perylene	ug/kg	ND	6.7	1.0	02/26/21 11:11	
Benzo(k)fluoranthene	ug/kg	ND	6.7	1.1	02/26/21 11:11	
Chrysene	ug/kg	ND	6.7	0.35	02/26/21 11:11	
Dibenz(a,h)anthracene	ug/kg	ND	6.7	1.5	02/26/21 11:11	
Fluoranthene	ug/kg	ND	6.7	0.51	02/26/21 11:11	
Fluorene	ug/kg	ND	6.7	0.62	02/26/21 11:11	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.7	1.3	02/26/21 11:11	
Naphthalene	ug/kg	ND	6.7	1.3	02/26/21 11:11	
Phenanthrene	ug/kg	ND	6.7	0.59	02/26/21 11:11	
Pyrene	ug/kg	ND	6.7	0.75	02/26/21 11:11	
2-Fluorobiphenyl (S)	%.	92	37-88		02/26/21 11:11	ST
Terphenyl-d14 (S)	%.	96	10-128		02/26/21 11:11	

LABORATORY CONTROL SAMPLE: 2105211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	131	107	81	47-104	
Acenaphthylene	ug/kg	131	106	81	49-115	
Anthracene	ug/kg	131	107	81	52-115	
Benzo(a)anthracene	ug/kg	131	118	90	54-130	
Benzo(a)pyrene	ug/kg	131	120	91	59-126	
Benzo(b)fluoranthene	ug/kg	131	123	93	55-133	
Benzo(g,h,i)perylene	ug/kg	131	120	92	54-127	
Benzo(k)fluoranthene	ug/kg	131	120	91	56-120	
Chrysene	ug/kg	131	116	89	56-115	
Dibenz(a,h)anthracene	ug/kg	131	122	93	55-129	
Fluoranthene	ug/kg	131	115	87	56-125	
Fluorene	ug/kg	131	108	83	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	131	121	92	55-129	
Naphthalene	ug/kg	131	105	80	45-102	
Phenanthrene	ug/kg	131	107	81	50-110	
Pyrene	ug/kg	131	116	88	56-122	
2-Fluorobiphenyl (S)	%.			87	37-88	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

LABORATORY CONTROL SAMPLE: 2105211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			97	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2105212 2105213

Parameter	Units	30405885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	166	164	147	142	87	85	24-109	3	20	
Acenaphthylene	ug/kg	ND	166	164	151	147	90	89	26-119	2	20	
Anthracene	ug/kg	ND	166	164	156	161	92	96	32-115	3	20	
Benzo(a)anthracene	ug/kg	ND	166	164	162	170	96	101	30-133	5	20	
Benzo(a)pyrene	ug/kg	ND	166	164	161	168	97	102	11-151	4	20	
Benzo(b)fluoranthene	ug/kg	10.5	166	164	169	197	96	113	25-140	15	20	
Benzo(g,h,i)perylene	ug/kg	ND	166	164	158	176	92	103	10-126	11	20	
Benzo(k)fluoranthene	ug/kg	9.4	166	164	159	157	90	90	25-127	1	20	
Chrysene	ug/kg	8.4	166	164	159	171	91	98	10-142	7	20	
Dibenz(a,h)anthracene	ug/kg	ND	166	164	157	158	95	96	13-127	0	20	
Fluoranthene	ug/kg	ND	166	164	166	180	96	105	20-139	8	20	
Fluorene	ug/kg	ND	166	164	157	156	94	95	28-114	0	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	166	164	158	170	95	103	15-123	7	20	
Naphthalene	ug/kg	12.1	166	164	154	156	85	87	15-104	2	20	
Phenanthrene	ug/kg	21.1	166	164	165	191	87	103	10-135	15	20	
Pyrene	ug/kg	ND	166	164	165	182	96	107	13-139	10	20	
2-Fluorobiphenyl (S)	%.						96	90	37-88			ST
Terphenyl-d14 (S)	%.						103	106	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: FOC River Trail 60589127
Pace Project No.: 30405885

QC Batch: 435161
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30405885001, 30405885002, 30405885003, 30405885004, 30405885005

SAMPLE DUPLICATE: 2100917

Parameter	Units	30406054001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.0	20.1	0	20	2c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: FOC River Trail 60589127
Pace Project No.: 30405885

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 434879

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 435161

[1] Due to a login error, only one DUP was performed with this batch.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	Due to a login error, only one DUP was performed with this batch.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FOC River Trail 60589127
Pace Project No.: 30405885

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30405885001	**SSS-01 (0'-2')**	EPA 3050B	435208	EPA 6010D	435257
30405885002	**SSS-01 (0'-2') MS**	EPA 3050B	435208	EPA 6010D	435257
30405885003	**SSS-01 (0'-2') MSD**	EPA 3050B	435208	EPA 6010D	435257
30405885004	**SSB-01 (2'-8')**	EPA 3050B	435208	EPA 6010D	435257
30405885005	**SSB-01 (2'-8') Dup**	EPA 3050B	435208	EPA 6010D	435257
30405885006	**Field Blank 5**	EPA 3005A	435200	EPA 6010D	435251
30405885007	**Equipment Blank 5**	EPA 3005A	435200	EPA 6010D	435251
30405885006	**Field Blank 5**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405885007	**Equipment Blank 5**	EPA 3510C	434879	EPA 8270E By SIM	435053
30405885001	**SSS-01 (0'-2')**	EPA 3546	436193	EPA 8270E by SIM	436410
30405885002	**SSS-01 (0'-2') MS**	EPA 3546	436193	EPA 8270E by SIM	436410
30405885003	**SSS-01 (0'-2') MSD**	EPA 3546	436193	EPA 8270E by SIM	436410
30405885004	**SSB-01 (2'-8')**	EPA 3546	436193	EPA 8270E by SIM	436410
30405885005	**SSB-01 (2'-8') Dup**	EPA 3546	436193	EPA 8270E by SIM	436410
30405885001	**SSS-01 (0'-2')**	EPA 5035A	435321	EPA 8260B	435327
30405885002	**SSS-01 (0'-2') MS**	EPA 5035A	435321	EPA 8260B	435327
30405885003	**SSS-01 (0'-2') MSD**	EPA 5035A	435321	EPA 8260B	435327
30405885004	**SSB-01 (2'-8')**	EPA 5035A	435321	EPA 8260B	435327
30405885005	**SSB-01 (2'-8') Dup**	EPA 5035A	435321	EPA 8260B	435327
30405885006	**Field Blank 5**	EPA 8260C	436175		
30405885007	**Equipment Blank 5**	EPA 8260C	436175		
30405885008	**Trip Blank**	EPA 8260C	436175		
30405885001	**SSS-01 (0'-2')**	ASTM D2974-87	435161		
30405885002	**SSS-01 (0'-2') MS**	ASTM D2974-87	435161		
30405885003	**SSS-01 (0'-2') MSD**	ASTM D2974-87	435161		
30405885004	**SSB-01 (2'-8')**	ASTM D2974-87	435161		
30405885005	**SSB-01 (2'-8') Dup**	ASTM D2974-87	435161		

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label H

WO# : 30405885

30405885

ALL

Container Preserv

** Preservative Types: (1) nitric acid, ..., (5) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: Friends of Coal River Trail
Customer Project Name/Number: Foc River Trail 60589127	State: WV / County/City: Preston / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: / Email:	Site/Facility ID #:
Collected By (print): Jason Neuman	Purchase Order #: / Quote #: 00071691
Collected By (signature):	Turnaround Date Required: Standard 10 Business Day
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Compliance Monitoring? [ ] Yes [ ] No
	DW PWS ID #: / DW Location Code:
	Immediately Packed on Ice: [X] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

Analyses: VOCs, Naphthalene, PAH's, Metals, SVOCs, Trip Blank

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N	NA
Custody Signatures Present	Y N	NA
Collector Signature Present	Y N	NA
Bottles Intact	Y N	NA
Correct Bottles	Y N	NA
Sufficient Volume	Y N	NA
Samples Received on Ice	Y N	NA
VOA - Headspace Acceptable	Y N	NA
USDA Regulated Soils	Y N	NA
Samples in Holding Time	Y N	NA
Residual Chlorine Present	Y N	NA
Cl Strips: _____		
Sample pH Acceptable	Y N	NA
pH Strips: lot#401		
Sulfide Present	Y N	NA
Lead Acetate Strips: _____		

LAB USE ONLY:
Lab Sample # / Comments:

RDC

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns									Lab Sample #
SSS-01 (0'-2')	SL	G	2/12/21	1050				5	✓	✓							001
SSS-01 (0'-2') MS	SL	G	2/12/21	1120				5	✓	✓							002
SSS-01 (0'-2') MSD	SL	G	2/12/21	1120				5	✓	✓							003
SSB-01 (2'-8')	SL	G	2/12/21	1135				5	✓	✓							004
SSB-01 (2'-8') Dup	SL	G	2/12/21	1135				5	✓	✓							005
Field Blank 5	WT	G	2/12/21	1015				5	✓	✓							006
Equipment Blank 5	WT	G	2/12/21	1005				5	✓	✓							007
Trip Blank 6	WT	Lab	Lab	Lab				2			✓						008

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ice

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y N NA

Lab Tracking #: 2590304

Samples received via: FEDEX UPS (Client) Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 5
Cooler 1 Temp Upon Receipt: 1.4 °C 4.5
Cooler 1 Therm Corr. Factor: -0.2 °C 0
Cooler 1 Corrected Temp: 1.2 °C 4.5
Comments:

2-12-21

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Relinquished by/Company: (Signature) (AECOM)	Date/Time: 2/12/21 1310	Received by/Company: (Signature)	Date/Time: 2/12/21 13:58	MTJL LAB USE ONLY	
Relinquished by/Company: (Signature)	Date/Time: 2/12/21 1610	Received by/Company: (Signature)	Date/Time: 2/12/21 1450	Table #: / Acctnum: / Template: / Prelogin: / PM: / PB:	
Relinquished by/Company: (Signature)	Date/Time: 2/12/21 1710	Received by/Company: (Signature)	Date/Time: 2-12-21 1730	Non Conformance(s): YES / NO	Page: _____ of: _____

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 02, 2021

Matthew Watson
AECOM
901 W. DuPont Ave.
Belle, WV 25015

RE: Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Dear Matthew Watson:

Enclosed are the analytical results for sample(s) received by the laboratory between March 19, 2021 and March 27, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

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

Sincerely,

Alexis E. Ozoroski
alexis.ozoroski@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Wanda Davis, AECOM

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Florida: Cert E871149 SEKS WET
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30411349001	**SED-1-U (0-0.5)**	Solid	03/16/21 16:10	03/19/21 10:00
30411349002	**SED-1-D (0-0.5)**	Solid	03/16/21 16:10	03/19/21 10:00
30411349003	**SPLP-1 (0-0.5)**	Solid	03/16/21 16:10	03/19/21 10:00
30411349004	**SED-2-U (0-0.5)**	Solid	03/17/21 09:30	03/19/21 10:00
30411349005	**SED-2-D (0-0.5)**	Solid	03/17/21 09:30	03/19/21 10:00
30411349006	**SPLP-2 (0-0.5)**	Solid	03/17/21 09:30	03/19/21 10:00
30411349007	**SED-2-D (0-0.5) MS**	Solid	03/17/21 09:40	03/19/21 10:00
30411349008	**SED-2-D (0-0.5) MSD**	Solid	03/17/21 09:45	03/19/21 10:00
30411349009	**SED-2-D (0-0.5) Dup**	Solid	03/17/21 09:30	03/19/21 10:00
30411349010	**SED-3-U (0-0.5)**	Solid	03/17/21 10:55	03/19/21 10:00
30411349011	**SED-3-D (0-0.5)**	Solid	03/17/21 10:50	03/19/21 10:00
30411349012	**SPLP-3 (0-0.5)**	Solid	03/17/21 11:00	03/19/21 10:00
30411349013	**SED-4-U (0-0.5)**	Solid	03/17/21 11:55	03/19/21 10:00
30411349014	**SPLP-4 (0-0.5)**	Solid	03/17/21 12:00	03/19/21 10:00
30411349015	**SED-5-U (0-0.5)**	Solid	03/17/21 13:35	03/19/21 10:00
30411349016	**SED-5-D (0-0.5)**	Solid	03/17/21 13:30	03/19/21 10:00
30411349017	**SPLP-5- (0-0.5)**	Solid	03/17/21 13:40	03/19/21 10:00
30411349018	**SED-6-U (0-0.5)**	Solid	03/17/21 16:00	03/19/21 10:00
30411349019	**SPLP-6 (0-0.5)**	Solid	03/17/21 16:05	03/19/21 10:00
30411349020	**SED-7-U (0-0.5)**	Solid	03/17/21 17:55	03/19/21 10:00
30411349021	**SPLP-7 (0-0.5)**	Solid	03/17/21 18:00	03/19/21 10:00
30411349022	**Field Blank 1**	Water	03/16/21 14:30	03/19/21 10:00
30411349023	**Equipment Blank 1**	Water	03/16/21 09:00	03/19/21 10:00
30411349024	**Field Blank 2**	Water	03/16/21 17:05	03/19/21 10:00
30411349025	**Equipment Blank 2**	Water	03/16/21 17:00	03/19/21 10:00
30411349026	**Trip Blank 1**	Water	03/16/21 00:01	03/19/21 10:00
30411349027	**Trip Blank 2**	Water	03/16/21 00:01	03/19/21 10:00
30411349028	**Trip Blank 3**	Water	03/16/21 00:01	03/19/21 10:00
30411349029	**SPLP-1(0-0.5) Leachate**	Water	03/26/21 09:37	03/26/21 09:37
30411349030	**SPLP-2(0-0.5) Leachate**	Water	03/26/21 09:58	03/26/21 09:58
30411349031	**SPLP-3(0-0.5) Leachate**	Water	03/26/21 10:05	03/26/21 10:05
30411349032	**SPLP-4(0-0.5) Leachate**	Water	03/26/21 10:29	03/26/21 10:29
30411349033	**SPLP-5(0-0.5) Leachate**	Water	03/26/21 10:30	03/26/21 10:30
30411349034	**SPLP-6(0-0.5) Leachate**	Water	03/26/21 10:44	03/26/21 10:44
30411349035	**SPLP-7(0-0.5) Leachate**	Water	03/27/21 07:17	03/27/21 07:17

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30411349001	**SED-1-U (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349002	**SED-1-D (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349003	**SPLP-1 (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349004	**SED-2-U (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349005	**SED-2-D (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349006	**SPLP-2 (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349007	**SED-2-D (0-0.5) MS**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349008	**SED-2-D (0-0.5) MSD**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349009	**SED-2-D (0-0.5) Dup**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349010	**SED-3-U (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	CED	1	PASI-PA
30411349011	**SED-3-D (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349012	**SPLP-3 (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349013	**SED-4-U (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349014	**SPLP-4 (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349015	**SED-5-U (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349016	**SED-5-D (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349017	**SPLP-5- (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349018	**SED-6-U (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349019	**SPLP-6 (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349020	**SED-7-U (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8270E by SIM	CF1	18	PASI-PA
		EPA 8260C	JEW	5	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30411349021	**SPLP-7 (0-0.5)**	EPA 6010D	CTS	2	PASI-PA
		EPA 8260C	ARG	7	PASI-PA
		ASTM D2974-87	CED	1	PASI-PA
30411349022	**Field Blank 1**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30411349023	**Equipment Blank 1**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30411349024	**Field Blank 2**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30411349025	**Equipment Blank 2**	EPA 6010D	CTS	3	PASI-PA
		EPA 8270E By SIM	CF1	18	PASI-PA
		EPA 8260C	JAS	5	PASI-PA
30411349026	**Trip Blank 1**	EPA 8260C	JAS	5	PASI-PA
30411349027	**Trip Blank 2**	EPA 8260C	JAS	5	PASI-PA
30411349028	**Trip Blank 3**	EPA 8260C	JAS	5	PASI-PA
30411349029	**SPLP-1(0-0.5) Leachate**	EPA 8270E By SIM	CF1	18	PASI-PA
30411349030	**SPLP-2(0-0.5) Leachate**	EPA 8270E By SIM	CF1	18	PASI-PA
30411349031	**SPLP-3(0-0.5) Leachate**	EPA 8270E By SIM	CF1	18	PASI-PA
30411349032	**SPLP-4(0-0.5) Leachate**	EPA 8270E By SIM	CF1	18	PASI-PA
30411349033	**SPLP-5(0-0.5) Leachate**	EPA 8270E By SIM	CF1	18	PASI-PA
30411349034	**SPLP-6(0-0.5) Leachate**	EPA 8270E By SIM	CF1	18	PASI-PA
30411349035	**SPLP-7(0-0.5) Leachate**	EPA 8270E By SIM	CF1	18	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
18 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050B with any exceptions noted below.
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
7 samples were analyzed for EPA 6010D by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.
- QC Batch: 440718

The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.
- QC Batch: 440936

The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.
- QC Batch: 440718

The CCB for Be and Mn is greater than the MDL for 7364343-001 and 005 for SPLP metals.
- QC Batch: 440936

The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.
- QC Batch: 440718

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Batch Comments:

The ICB and CCB for Sr are greater than the MDL for 30412191-002 and 005 for SPLP metals.
- QC Batch: 440936

Analyte Comments:

QC Batch: 440669

3c: The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.
- BLANK (Lab ID: 2127416)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127418)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127421)
  - Arsenic
  - Lead
- LB (Lab ID: 2126160)
  - Arsenic
  - Lead
- LB (Lab ID: 2126190)
  - Arsenic
  - Lead
- LCS (Lab ID: 2127417)
  - Arsenic
  - Lead
- MS (Lab ID: 2127419)
  - Arsenic
  - Lead
- MS (Lab ID: 2127422)
  - Arsenic
  - Lead
- MSD (Lab ID: 2127420)
  - Arsenic
  - Lead
- SPLP-1 (0-0.5) (Lab ID: 30411349003)
  - Arsenic
  - Lead
- SPLP-2 (0-0.5) (Lab ID: 30411349006)
  - Arsenic
  - Lead
- SPLP-3 (0-0.5) (Lab ID: 30411349012)
  - Arsenic
  - Lead
- SPLP-4 (0-0.5) (Lab ID: 30411349014)
  - Arsenic
  - Lead

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440669

3c: The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.

- SPLP-5- (0-0.5) (Lab ID: 30411349017)
  - Arsenic
  - Lead
- SPLP-6 (0-0.5) (Lab ID: 30411349019)
  - Arsenic
  - Lead

5c: The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.

- BLANK (Lab ID: 2127416)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127418)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127421)
  - Arsenic
  - Lead
- LB (Lab ID: 2126160)
  - Arsenic
  - Lead
- LB (Lab ID: 2126190)
  - Arsenic
  - Lead
- LCS (Lab ID: 2127417)
  - Arsenic
  - Lead
- MS (Lab ID: 2127419)
  - Arsenic
  - Lead
- MS (Lab ID: 2127422)
  - Arsenic
  - Lead
- MSD (Lab ID: 2127420)
  - Arsenic
  - Lead
- SPLP-1 (0-0.5) (Lab ID: 30411349003)
  - Arsenic
  - Lead
- SPLP-2 (0-0.5) (Lab ID: 30411349006)
  - Arsenic
  - Lead
- SPLP-3 (0-0.5) (Lab ID: 30411349012)
  - Arsenic

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440669

5c: The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.

- SPLP-3 (0-0.5) (Lab ID: 30411349012)
  - Lead
- SPLP-4 (0-0.5) (Lab ID: 30411349014)
  - Arsenic
  - Lead
- SPLP-5- (0-0.5) (Lab ID: 30411349017)
  - Arsenic
  - Lead
- SPLP-6 (0-0.5) (Lab ID: 30411349019)
  - Arsenic
  - Lead

7c: The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.

- BLANK (Lab ID: 2127416)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127418)
  - Arsenic
  - Lead
- DUP (Lab ID: 2127421)
  - Arsenic
  - Lead
- LB (Lab ID: 2126160)
  - Arsenic
  - Lead
- LB (Lab ID: 2126190)
  - Arsenic
  - Lead
- LCS (Lab ID: 2127417)
  - Arsenic
  - Lead
- MS (Lab ID: 2127419)
  - Arsenic
  - Lead
- MS (Lab ID: 2127422)
  - Arsenic
  - Lead
- MSD (Lab ID: 2127420)
  - Arsenic
  - Lead
- SPLP-1 (0-0.5) (Lab ID: 30411349003)
  - Arsenic
  - Lead

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440669

7c: The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.

- SPLP-2 (0-0.5) (Lab ID: 30411349006)
  - Arsenic
  - Lead
- SPLP-3 (0-0.5) (Lab ID: 30411349012)
  - Arsenic
  - Lead
- SPLP-4 (0-0.5) (Lab ID: 30411349014)
  - Arsenic
  - Lead
- SPLP-5- (0-0.5) (Lab ID: 30411349017)
  - Arsenic
  - Lead
- SPLP-6 (0-0.5) (Lab ID: 30411349019)
  - Arsenic
  - Lead

QC Batch: 440834

4c: The CCB for Be and Mn is greater than the MDL for 7364343-001 and 005 for SPLP metals.

- BLANK (Lab ID: 2128138)
  - Arsenic
  - Lead
- DUP (Lab ID: 2128140)
  - Arsenic
  - Lead
- LB (Lab ID: 2127082)
  - Arsenic
  - Lead
- LB (Lab ID: 2127083)
  - Arsenic
  - Lead
- LCS (Lab ID: 2128139)
  - Arsenic
  - Lead
- MS (Lab ID: 2128141)
  - Arsenic
  - Lead
- MSD (Lab ID: 2128142)
  - Arsenic
  - Lead
- SPLP-7 (0-0.5) (Lab ID: 30411349021)
  - Arsenic
  - Lead

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440834

6c: The ICB and CCB for Sr are greater than the MDL for 30412191-002 and 005 for SPLP metals.

- BLANK (Lab ID: 2128138)
  - Arsenic
  - Lead
- DUP (Lab ID: 2128140)
  - Arsenic
  - Lead
- LB (Lab ID: 2127082)
  - Arsenic
  - Lead
- LB (Lab ID: 2127083)
  - Arsenic
  - Lead
- LCS (Lab ID: 2128139)
  - Arsenic
  - Lead
- MS (Lab ID: 2128141)
  - Arsenic
  - Lead
- MSD (Lab ID: 2128142)
  - Arsenic
  - Lead
- SPLP-7 (0-0.5) (Lab ID: 30411349021)
  - Arsenic
  - Lead

8c: The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.

- BLANK (Lab ID: 2128138)
  - Arsenic
  - Lead
- DUP (Lab ID: 2128140)
  - Arsenic
  - Lead
- LB (Lab ID: 2127082)
  - Arsenic
  - Lead
- LB (Lab ID: 2127083)
  - Arsenic
  - Lead
- LCS (Lab ID: 2128139)
  - Arsenic
  - Lead
- MS (Lab ID: 2128141)
  - Arsenic

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 6010D**
Description: 6010D MET ICP, SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 440834

8c: The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.

- MS (Lab ID: 2128141)
  - Lead
- MSD (Lab ID: 2128142)
  - Arsenic
  - Lead
- SPLP-7 (0-0.5) (Lab ID: 30411349021)
  - Arsenic
  - Lead

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
11 samples were analyzed for EPA 8270E By SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 439827

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 439827

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 1 (Lab ID: 30411349023)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 439827

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Equipment Blank 1 (Lab ID: 30411349023)
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Equipment Blank 2 (Lab ID: 30411349025)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 1 (Lab ID: 30411349022)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E By SIM**
Description: 8270E PAH SIM Reduced Volume
Client: AECOM (Belle, WV)
Date: April 02, 2021

Analyte Comments:

QC Batch: 439827

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Field Blank 1 (Lab ID: 30411349022)
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene
- Field Blank 2 (Lab ID: 30411349024)
  - Acenaphthene
  - Acenaphthylene
  - Anthracene
  - Benzo(k)fluoranthene
  - Benzo(g,h,i)perylene
  - Benzo(a)anthracene
  - Benzo(b)fluoranthene
  - Benzo(a)pyrene
  - Chrysene
  - Dibenz(a,h)anthracene
  - Fluorene
  - Fluoranthene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene
  - Phenanthrene
  - Pyrene

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
14 samples were analyzed for EPA 8270E by SIM by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 439851

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.

- BLANK (Lab ID: 2123715)
  - 2-Fluorobiphenyl (S)
- LCS (Lab ID: 2123716)
  - 2-Fluorobiphenyl (S)
- MSD (Lab ID: 2123718)
  - 2-Fluorobiphenyl (S)
- SED-1-U (0-0.5) (Lab ID: 30411349001)
  - 2-Fluorobiphenyl (S)
- SED-2-D (0-0.5) Dup (Lab ID: 30411349009)
  - 2-Fluorobiphenyl (S)
- SED-2-D (0-0.5) MSD (Lab ID: 30411349008)
  - 2-Fluorobiphenyl (S)
- SED-5-D (0-0.5) (Lab ID: 30411349016)
  - 2-Fluorobiphenyl (S)
- SED-5-U (0-0.5) (Lab ID: 30411349015)
  - 2-Fluorobiphenyl (S)
- SED-6-U (0-0.5) (Lab ID: 30411349018)
  - 2-Fluorobiphenyl (S)
- SED-7-U (0-0.5) (Lab ID: 30411349020)
  - 2-Fluorobiphenyl (S)

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8270E by SIM**
Description: 8270E MSSV PAH by SIM
Client: AECOM (Belle, WV)
Date: April 02, 2021

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 439851

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30411349005

R1: RPD value was outside control limits.

- MSD (Lab ID: 2123718)
  - Benzo(b)fluoranthene
  - Chrysene
  - Fluoranthene
  - Pyrene

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8260C**
Description: 8260C MSV 5035 Low Level
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
14 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8260C**
Description: 8260C MSV SPLP
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
7 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Method: **EPA 8260C**
Description: 8260C MSV
Client: AECOM (Belle, WV)
Date: April 02, 2021

General Information:
7 samples were analyzed for EPA 8260C by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-1-U (0-0.5) **Lab ID: 30411349001** Collected: 03/16/21 16:10 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**16.9**	mg/kg	2.0	0.77	1	03/29/21 15:32	03/30/21 15:26	7440-38-2	
Lead	**21.9**	mg/kg	2.0	0.88	1	03/29/21 15:32	03/30/21 15:26	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	13.8	1.2	1	03/23/21 09:29	03/24/21 15:27	83-32-9	
Acenaphthylene	ND	ug/kg	13.8	0.98	1	03/23/21 09:29	03/24/21 15:27	208-96-8	
Anthracene	ND	ug/kg	13.8	1.2	1	03/23/21 09:29	03/24/21 15:27	120-12-7	
Benzo(a)anthracene	**34.3**	ug/kg	13.8	1.6	1	03/23/21 09:29	03/24/21 15:27	56-55-3	
Benzo(a)pyrene	**43.9**	ug/kg	13.8	0.86	1	03/23/21 09:29	03/24/21 15:27	50-32-8	
Benzo(b)fluoranthene	**89.3**	ug/kg	13.8	1.6	1	03/23/21 09:29	03/24/21 15:27	205-99-2	
Benzo(g,h,i)perylene	**35.2**	ug/kg	13.8	2.1	1	03/23/21 09:29	03/24/21 15:27	191-24-2	
Benzo(k)fluoranthene	**29.3**	ug/kg	13.8	2.3	1	03/23/21 09:29	03/24/21 15:27	207-08-9	
Chrysene	**66.4**	ug/kg	13.8	0.71	1	03/23/21 09:29	03/24/21 15:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	13.8	3.1	1	03/23/21 09:29	03/24/21 15:27	53-70-3	
Fluoranthene	**64.1**	ug/kg	13.8	1.0	1	03/23/21 09:29	03/24/21 15:27	206-44-0	
Fluorene	ND	ug/kg	13.8	1.3	1	03/23/21 09:29	03/24/21 15:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**30.4**	ug/kg	13.8	2.6	1	03/23/21 09:29	03/24/21 15:27	193-39-5	
Naphthalene	**38.1**	ug/kg	13.8	2.7	1	03/23/21 09:29	03/24/21 15:27	91-20-3	
Phenanthrene	**78.3**	ug/kg	13.8	1.2	1	03/23/21 09:29	03/24/21 15:27	85-01-8	
Pyrene	**57.6**	ug/kg	13.8	1.5	1	03/23/21 09:29	03/24/21 15:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	92	%.	37-88		1	03/23/21 09:29	03/24/21 15:27	321-60-8	ST
Terphenyl-d14 (S)	99	%.	10-128		1	03/23/21 09:29	03/24/21 15:27	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	16.8	3.2	1	03/24/21 11:35	03/24/21 12:41	91-20-3	
Surrogates									
Toluene-d8 (S)	105	%.	70-130		1	03/24/21 11:35	03/24/21 12:41	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	70-130		1	03/24/21 11:35	03/24/21 12:41	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 12:41	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	03/24/21 11:35	03/24/21 12:41	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**52.7**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-1-D (0-0.5) **Lab ID: 30411349002** Collected: 03/16/21 16:10 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**15.4**	mg/kg	1.5	0.60	1	03/29/21 15:32	03/30/21 15:29	7440-38-2	
Lead	**24.8**	mg/kg	1.5	0.69	1	03/29/21 15:32	03/30/21 15:29	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	10.3	0.93	1	03/23/21 09:29	03/24/21 15:45	83-32-9	
Acenaphthylene	**25.3**	ug/kg	10.3	0.74	1	03/23/21 09:29	03/24/21 15:45	208-96-8	
Anthracene	**45.1**	ug/kg	10.3	0.93	1	03/23/21 09:29	03/24/21 15:45	120-12-7	
Benzo(a)anthracene	**145**	ug/kg	10.3	1.2	1	03/23/21 09:29	03/24/21 15:45	56-55-3	
Benzo(a)pyrene	**232**	ug/kg	10.3	0.64	1	03/23/21 09:29	03/24/21 15:45	50-32-8	
Benzo(b)fluoranthene	**496**	ug/kg	10.3	1.2	1	03/23/21 09:29	03/24/21 15:45	205-99-2	
Benzo(g,h,i)perylene	**202**	ug/kg	10.3	1.6	1	03/23/21 09:29	03/24/21 15:45	191-24-2	
Benzo(k)fluoranthene	**129**	ug/kg	10.3	1.7	1	03/23/21 09:29	03/24/21 15:45	207-08-9	
Chrysene	**256**	ug/kg	10.3	0.53	1	03/23/21 09:29	03/24/21 15:45	218-01-9	
Dibenz(a,h)anthracene	**57.6**	ug/kg	10.3	2.3	1	03/23/21 09:29	03/24/21 15:45	53-70-3	
Fluoranthene	**192**	ug/kg	10.3	0.78	1	03/23/21 09:29	03/24/21 15:45	206-44-0	
Fluorene	ND	ug/kg	10.3	0.95	1	03/23/21 09:29	03/24/21 15:45	86-73-7	
Indeno(1,2,3-cd)pyrene	**171**	ug/kg	10.3	2.0	1	03/23/21 09:29	03/24/21 15:45	193-39-5	
Naphthalene	**41.4**	ug/kg	10.3	2.0	1	03/23/21 09:29	03/24/21 15:45	91-20-3	
Phenanthrene	**75.1**	ug/kg	10.3	0.91	1	03/23/21 09:29	03/24/21 15:45	85-01-8	
Pyrene	**215**	ug/kg	10.3	1.2	1	03/23/21 09:29	03/24/21 15:45	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	88	%.	37-88		1	03/23/21 09:29	03/24/21 15:45	321-60-8	
Terphenyl-d14 (S)	96	%.	10-128		1	03/23/21 09:29	03/24/21 15:45	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	8.0	1.5	1	03/24/21 11:35	03/24/21 13:06	91-20-3	
Surrogates									
Toluene-d8 (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 13:06	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 13:06	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 13:06	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**36.0**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-1 (0-0.5) **Lab ID: 30411349003** Collected: 03/16/21 16:10 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 7.62								
	Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:30	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:30	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21								
	Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 13:10	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 13:10	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 13:10	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	94	%.	70-130		10		03/26/21 13:10	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 13:10	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		10		03/26/21 13:10	460-00-4	
Dibromofluoromethane (S)	96	%.	70-130		10		03/26/21 13:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**48.9**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-U (0-0.5) **Lab ID: 30411349004** Collected: 03/17/21 09:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**7.1**	mg/kg	2.1	0.81	1	03/29/21 15:32	03/30/21 15:32	7440-38-2	
Lead	**12.6**	mg/kg	2.1	0.94	1	03/29/21 15:32	03/30/21 15:32	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	15.3	1.4	1	03/23/21 09:29	03/24/21 16:02	83-32-9	
Acenaphthylene	ND	ug/kg	15.3	1.1	1	03/23/21 09:29	03/24/21 16:02	208-96-8	
Anthracene	ND	ug/kg	15.3	1.4	1	03/23/21 09:29	03/24/21 16:02	120-12-7	
Benzo(a)anthracene	**22.3**	ug/kg	15.3	1.8	1	03/23/21 09:29	03/24/21 16:02	56-55-3	
Benzo(a)pyrene	**26.2**	ug/kg	15.3	0.95	1	03/23/21 09:29	03/24/21 16:02	50-32-8	
Benzo(b)fluoranthene	**46.5**	ug/kg	15.3	1.8	1	03/23/21 09:29	03/24/21 16:02	205-99-2	
Benzo(g,h,i)perylene	**18.6**	ug/kg	15.3	2.3	1	03/23/21 09:29	03/24/21 16:02	191-24-2	
Benzo(k)fluoranthene	**17.4**	ug/kg	15.3	2.6	1	03/23/21 09:29	03/24/21 16:02	207-08-9	
Chrysene	**35.2**	ug/kg	15.3	0.79	1	03/23/21 09:29	03/24/21 16:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	15.3	3.4	1	03/23/21 09:29	03/24/21 16:02	53-70-3	
Fluoranthene	**50.1**	ug/kg	15.3	1.2	1	03/23/21 09:29	03/24/21 16:02	206-44-0	
Fluorene	ND	ug/kg	15.3	1.4	1	03/23/21 09:29	03/24/21 16:02	86-73-7	
Indeno(1,2,3-cd)pyrene	**15.4**	ug/kg	15.3	2.9	1	03/23/21 09:29	03/24/21 16:02	193-39-5	
Naphthalene	ND	ug/kg	15.3	3.0	1	03/23/21 09:29	03/24/21 16:02	91-20-3	
Phenanthrene	**45.1**	ug/kg	15.3	1.3	1	03/23/21 09:29	03/24/21 16:02	85-01-8	
Pyrene	**42.4**	ug/kg	15.3	1.7	1	03/23/21 09:29	03/24/21 16:02	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	86	%.	37-88		1	03/23/21 09:29	03/24/21 16:02	321-60-8	
Terphenyl-d14 (S)	94	%.	10-128		1	03/23/21 09:29	03/24/21 16:02	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	15.5	2.9	1	03/24/21 11:35	03/24/21 13:32	91-20-3	
Surrogates									
Toluene-d8 (S)	106	%.	70-130		1	03/24/21 11:35	03/24/21 13:32	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 13:32	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 13:32	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**56.3**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-D (0-0.5) **Lab ID: 30411349005** Collected: 03/17/21 09:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**12.3**	mg/kg	1.7	0.67	1	03/29/21 15:32	03/30/21 15:15	7440-38-2	
Lead	**18.5**	mg/kg	1.7	0.77	1	03/29/21 15:32	03/30/21 15:15	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	12.7	1.2	1	03/23/21 09:29	03/24/21 16:20	83-32-9	
Acenaphthylene	**18.2**	ug/kg	12.7	0.91	1	03/23/21 09:29	03/24/21 16:20	208-96-8	
Anthracene	**33.1**	ug/kg	12.7	1.2	1	03/23/21 09:29	03/24/21 16:20	120-12-7	
Benzo(a)anthracene	**116**	ug/kg	12.7	1.5	1	03/23/21 09:29	03/24/21 16:20	56-55-3	
Benzo(a)pyrene	**105**	ug/kg	12.7	0.80	1	03/23/21 09:29	03/24/21 16:20	50-32-8	
Benzo(b)fluoranthene	**240**	ug/kg	12.7	1.5	1	03/23/21 09:29	03/24/21 16:20	205-99-2	R1
Benzo(g,h,i)perylene	**55.3**	ug/kg	12.7	1.9	1	03/23/21 09:29	03/24/21 16:20	191-24-2	
Benzo(k)fluoranthene	**66.8**	ug/kg	12.7	2.1	1	03/23/21 09:29	03/24/21 16:20	207-08-9	
Chrysene	**181**	ug/kg	12.7	0.66	1	03/23/21 09:29	03/24/21 16:20	218-01-9	R1
Dibenz(a,h)anthracene	**19.4**	ug/kg	12.7	2.8	1	03/23/21 09:29	03/24/21 16:20	53-70-3	
Fluoranthene	**248**	ug/kg	12.7	0.96	1	03/23/21 09:29	03/24/21 16:20	206-44-0	R1
Fluorene	ND	ug/kg	12.7	1.2	1	03/23/21 09:29	03/24/21 16:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**53.0**	ug/kg	12.7	2.4	1	03/23/21 09:29	03/24/21 16:20	193-39-5	
Naphthalene	**16.6**	ug/kg	12.7	2.5	1	03/23/21 09:29	03/24/21 16:20	91-20-3	
Phenanthrene	**61.7**	ug/kg	12.7	1.1	1	03/23/21 09:29	03/24/21 16:20	85-01-8	
Pyrene	**234**	ug/kg	12.7	1.4	1	03/23/21 09:29	03/24/21 16:20	129-00-0	R1
Surrogates									
2-Fluorobiphenyl (S)	77	%.	37-88		1	03/23/21 09:29	03/24/21 16:20	321-60-8	
Terphenyl-d14 (S)	74	%.	10-128		1	03/23/21 09:29	03/24/21 16:20	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	12.1	2.3	1	03/24/21 11:35	03/24/21 13:58	91-20-3	
Surrogates									
Toluene-d8 (S)	107	%.	70-130		1	03/24/21 11:35	03/24/21 13:58	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130		1	03/24/21 11:35	03/24/21 13:58	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 13:58	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1	03/24/21 11:35	03/24/21 13:58	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**48.0**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-2 (0-0.5) **Lab ID: 30411349006** Collected: 03/17/21 09:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 10.73								
	Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:33	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:33	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21								
	Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 14:27	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 14:27	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 14:27	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%.	70-130		10		03/26/21 14:27	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 14:27	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		03/26/21 14:27	460-00-4	
Dibromofluoromethane (S)	96	%.	70-130		10		03/26/21 14:27	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**57.3**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-D (0-0.5) MS **Lab ID: 30411349007** Collected: 03/17/21 09:40 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**99.2**	mg/kg	1.9	0.75	1	03/29/21 15:32	03/30/21 15:21	7440-38-2	
Lead	**103**	mg/kg	1.9	0.87	1	03/29/21 15:32	03/30/21 15:21	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**246**	ug/kg	14.0	1.3	1	03/23/21 09:29	03/24/21 16:38	83-32-9	
Acenaphthylene	**288**	ug/kg	14.0	1.0	1	03/23/21 09:29	03/24/21 16:38	208-96-8	
Anthracene	**308**	ug/kg	14.0	1.3	1	03/23/21 09:29	03/24/21 16:38	120-12-7	
Benzo(a)anthracene	**408**	ug/kg	14.0	1.6	1	03/23/21 09:29	03/24/21 16:38	56-55-3	
Benzo(a)pyrene	**380**	ug/kg	14.0	0.87	1	03/23/21 09:29	03/24/21 16:38	50-32-8	
Benzo(b)fluoranthene	**525**	ug/kg	14.0	1.7	1	03/23/21 09:29	03/24/21 16:38	205-99-2	
Benzo(g,h,i)perylene	**287**	ug/kg	14.0	2.1	1	03/23/21 09:29	03/24/21 16:38	191-24-2	
Benzo(k)fluoranthene	**365**	ug/kg	14.0	2.3	1	03/23/21 09:29	03/24/21 16:38	207-08-9	
Chrysene	**476**	ug/kg	14.0	0.72	1	03/23/21 09:29	03/24/21 16:38	218-01-9	
Dibenz(a,h)anthracene	**253**	ug/kg	14.0	3.1	1	03/23/21 09:29	03/24/21 16:38	53-70-3	
Fluoranthene	**576**	ug/kg	14.0	1.1	1	03/23/21 09:29	03/24/21 16:38	206-44-0	
Fluorene	**259**	ug/kg	14.0	1.3	1	03/23/21 09:29	03/24/21 16:38	86-73-7	
Indeno(1,2,3-cd)pyrene	**290**	ug/kg	14.0	2.7	1	03/23/21 09:29	03/24/21 16:38	193-39-5	
Naphthalene	**255**	ug/kg	14.0	2.7	1	03/23/21 09:29	03/24/21 16:38	91-20-3	
Phenanthrene	**345**	ug/kg	14.0	1.2	1	03/23/21 09:29	03/24/21 16:38	85-01-8	
Pyrene	**544**	ug/kg	14.0	1.6	1	03/23/21 09:29	03/24/21 16:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	87	%.	37-88		1	03/23/21 09:29	03/24/21 16:38	321-60-8	
Terphenyl-d14 (S)	90	%.	10-128		1	03/23/21 09:29	03/24/21 16:38	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	**18.9**	ug/kg	13.2	2.5	1	03/24/21 11:35	03/24/21 14:24	91-20-3	
Surrogates									
Toluene-d8 (S)	106	%.	70-130		1	03/24/21 11:35	03/24/21 14:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 14:24	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	70-130		1	03/24/21 11:35	03/24/21 14:24	17060-07-0	
Dibromofluoromethane (S)	93	%.	70-130		1	03/24/21 11:35	03/24/21 14:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**53.5**	%	0.10	0.10	1		03/22/21 15:49		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-D (0-0.5) MSD **Lab ID: 30411349008** Collected: 03/17/21 09:45 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**89.6**	mg/kg	1.8	0.69	1	03/29/21 15:32	03/30/21 15:24	7440-38-2	
Lead	**91.5**	mg/kg	1.8	0.79	1	03/29/21 15:32	03/30/21 15:24	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**231**	ug/kg	12.9	1.2	1	03/23/21 09:29	03/24/21 16:56	83-32-9	
Acenaphthylene	**259**	ug/kg	12.9	0.93	1	03/23/21 09:29	03/24/21 16:56	208-96-8	
Anthracene	**272**	ug/kg	12.9	1.2	1	03/23/21 09:29	03/24/21 16:56	120-12-7	
Benzo(a)anthracene	**315**	ug/kg	12.9	1.5	1	03/23/21 09:29	03/24/21 16:56	56-55-3	
Benzo(a)pyrene	**313**	ug/kg	12.9	0.81	1	03/23/21 09:29	03/24/21 16:56	50-32-8	
Benzo(b)fluoranthene	**391**	ug/kg	12.9	1.5	1	03/23/21 09:29	03/24/21 16:56	205-99-2	
Benzo(g,h,i)perylene	**245**	ug/kg	12.9	1.9	1	03/23/21 09:29	03/24/21 16:56	191-24-2	
Benzo(k)fluoranthene	**289**	ug/kg	12.9	2.2	1	03/23/21 09:29	03/24/21 16:56	207-08-9	
Chrysene	**324**	ug/kg	12.9	0.67	1	03/23/21 09:29	03/24/21 16:56	218-01-9	
Dibenz(a,h)anthracene	**234**	ug/kg	12.9	2.9	1	03/23/21 09:29	03/24/21 16:56	53-70-3	
Fluoranthene	**376**	ug/kg	12.9	0.98	1	03/23/21 09:29	03/24/21 16:56	206-44-0	
Fluorene	**244**	ug/kg	12.9	1.2	1	03/23/21 09:29	03/24/21 16:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**253**	ug/kg	12.9	2.5	1	03/23/21 09:29	03/24/21 16:56	193-39-5	
Naphthalene	**229**	ug/kg	12.9	2.5	1	03/23/21 09:29	03/24/21 16:56	91-20-3	
Phenanthrene	**279**	ug/kg	12.9	1.1	1	03/23/21 09:29	03/24/21 16:56	85-01-8	
Pyrene	**363**	ug/kg	12.9	1.5	1	03/23/21 09:29	03/24/21 16:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	93	%.	37-88		1	03/23/21 09:29	03/24/21 16:56	321-60-8	ST
Terphenyl-d14 (S)	103	%.	10-128		1	03/23/21 09:29	03/24/21 16:56	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	**13.8**	ug/kg	8.0	1.5	1	03/24/21 11:35	03/24/21 14:50	91-20-3	
Surrogates									
Toluene-d8 (S)	106	%.	70-130		1	03/24/21 11:35	03/24/21 14:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 14:50	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	70-130		1	03/24/21 11:35	03/24/21 14:50	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1	03/24/21 11:35	03/24/21 14:50	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**49.1**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-2-D (0-0.5) Dup **Lab ID: 30411349009** Collected: 03/17/21 09:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**9.3**	mg/kg	2.2	0.85	1	03/29/21 15:32	03/30/21 15:35	7440-38-2	
Lead	**13.6**	mg/kg	2.2	0.98	1	03/29/21 15:32	03/30/21 15:35	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	14.3	1.3	1	03/23/21 09:29	03/24/21 17:14	83-32-9	
Acenaphthylene	ND	ug/kg	14.3	1.0	1	03/23/21 09:29	03/24/21 17:14	208-96-8	
Anthracene	**24.3**	ug/kg	14.3	1.3	1	03/23/21 09:29	03/24/21 17:14	120-12-7	
Benzo(a)anthracene	**74.7**	ug/kg	14.3	1.7	1	03/23/21 09:29	03/24/21 17:14	56-55-3	
Benzo(a)pyrene	**65.8**	ug/kg	14.3	0.89	1	03/23/21 09:29	03/24/21 17:14	50-32-8	
Benzo(b)fluoranthene	**151**	ug/kg	14.3	1.7	1	03/23/21 09:29	03/24/21 17:14	205-99-2	
Benzo(g,h,i)perylene	**36.2**	ug/kg	14.3	2.2	1	03/23/21 09:29	03/24/21 17:14	191-24-2	
Benzo(k)fluoranthene	**42.3**	ug/kg	14.3	2.4	1	03/23/21 09:29	03/24/21 17:14	207-08-9	
Chrysene	**119**	ug/kg	14.3	0.74	1	03/23/21 09:29	03/24/21 17:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	14.3	3.2	1	03/23/21 09:29	03/24/21 17:14	53-70-3	
Fluoranthene	**156**	ug/kg	14.3	1.1	1	03/23/21 09:29	03/24/21 17:14	206-44-0	
Fluorene	ND	ug/kg	14.3	1.3	1	03/23/21 09:29	03/24/21 17:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**33.3**	ug/kg	14.3	2.7	1	03/23/21 09:29	03/24/21 17:14	193-39-5	
Naphthalene	ND	ug/kg	14.3	2.8	1	03/23/21 09:29	03/24/21 17:14	91-20-3	
Phenanthrene	**38.2**	ug/kg	14.3	1.3	1	03/23/21 09:29	03/24/21 17:14	85-01-8	
Pyrene	**138**	ug/kg	14.3	1.6	1	03/23/21 09:29	03/24/21 17:14	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	93	%.	37-88		1	03/23/21 09:29	03/24/21 17:14	321-60-8	ST
Terphenyl-d14 (S)	97	%.	10-128		1	03/23/21 09:29	03/24/21 17:14	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	13.5	2.5	1	03/24/21 11:35	03/24/21 15:15	91-20-3	
Surrogates									
Toluene-d8 (S)	105	%.	70-130		1	03/24/21 11:35	03/24/21 15:15	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 15:15	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 15:15	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	03/24/21 11:35	03/24/21 15:15	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**54.2**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-3-U (0-0.5) **Lab ID: 30411349010** Collected: 03/17/21 10:55 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**23.9**	mg/kg	3.2	1.3	1	03/29/21 15:32	03/30/21 15:43	7440-38-2	
Lead	**32.4**	mg/kg	3.2	1.5	1	03/29/21 15:32	03/30/21 15:43	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**28.8**	ug/kg	23.2	2.1	1	03/23/21 09:29	03/24/21 17:31	83-32-9	
Acenaphthylene	**44.5**	ug/kg	23.2	1.7	1	03/23/21 09:29	03/24/21 17:31	208-96-8	
Anthracene	**48.0**	ug/kg	23.2	2.1	1	03/23/21 09:29	03/24/21 17:31	120-12-7	
Benzo(a)anthracene	**164**	ug/kg	23.2	2.7	1	03/23/21 09:29	03/24/21 17:31	56-55-3	
Benzo(a)pyrene	**203**	ug/kg	23.2	1.5	1	03/23/21 09:29	03/24/21 17:31	50-32-8	
Benzo(b)fluoranthene	**426**	ug/kg	23.2	2.8	1	03/23/21 09:29	03/24/21 17:31	205-99-2	
Benzo(g,h,i)perylene	**115**	ug/kg	23.2	3.5	1	03/23/21 09:29	03/24/21 17:31	191-24-2	
Benzo(k)fluoranthene	**108**	ug/kg	23.2	3.9	1	03/23/21 09:29	03/24/21 17:31	207-08-9	
Chrysene	**255**	ug/kg	23.2	1.2	1	03/23/21 09:29	03/24/21 17:31	218-01-9	
Dibenz(a,h)anthracene	**39.7**	ug/kg	23.2	5.2	1	03/23/21 09:29	03/24/21 17:31	53-70-3	
Fluoranthene	**279**	ug/kg	23.2	1.8	1	03/23/21 09:29	03/24/21 17:31	206-44-0	
Fluorene	**32.8**	ug/kg	23.2	2.1	1	03/23/21 09:29	03/24/21 17:31	86-73-7	
Indeno(1,2,3-cd)pyrene	**113**	ug/kg	23.2	4.4	1	03/23/21 09:29	03/24/21 17:31	193-39-5	
Naphthalene	**85.5**	ug/kg	23.2	4.5	1	03/23/21 09:29	03/24/21 17:31	91-20-3	
Phenanthrene	**196**	ug/kg	23.2	2.0	1	03/23/21 09:29	03/24/21 17:31	85-01-8	
Pyrene	**273**	ug/kg	23.2	2.6	1	03/23/21 09:29	03/24/21 17:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%.	37-88		1	03/23/21 09:29	03/24/21 17:31	321-60-8	
Terphenyl-d14 (S)	71	%.	10-128		1	03/23/21 09:29	03/24/21 17:31	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	21.4	4.0	1	03/24/21 11:35	03/24/21 15:41	91-20-3	
Surrogates									
Toluene-d8 (S)	109	%.	70-130		1	03/24/21 11:35	03/24/21 15:41	2037-26-5	
4-Bromofluorobenzene (S)	110	%.	70-130		1	03/24/21 11:35	03/24/21 15:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	70-130		1	03/24/21 11:35	03/24/21 15:41	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	03/24/21 11:35	03/24/21 15:41	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**71.2**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-3-D (0-0.5) **Lab ID: 30411349011** Collected: 03/17/21 10:50 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**10.1**	mg/kg	2.5	0.96	1	03/29/21 15:32	03/30/21 15:46	7440-38-2	
Lead	**43.1**	mg/kg	2.5	1.1	1	03/29/21 15:32	03/30/21 15:46	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	**116**	ug/kg	16.3	1.5	1	03/23/21 09:29	03/24/21 17:49	83-32-9	
Acenaphthylene	ND	ug/kg	16.3	1.2	1	03/23/21 09:29	03/24/21 17:49	208-96-8	
Anthracene	**70.4**	ug/kg	16.3	1.5	1	03/23/21 09:29	03/24/21 17:49	120-12-7	
Benzo(a)anthracene	**201**	ug/kg	16.3	1.9	1	03/23/21 09:29	03/24/21 17:49	56-55-3	
Benzo(a)pyrene	**273**	ug/kg	16.3	1.0	1	03/23/21 09:29	03/24/21 17:49	50-32-8	
Benzo(b)fluoranthene	**458**	ug/kg	16.3	2.0	1	03/23/21 09:29	03/24/21 17:49	205-99-2	
Benzo(g,h,i)perylene	**191**	ug/kg	16.3	2.5	1	03/23/21 09:29	03/24/21 17:49	191-24-2	
Benzo(k)fluoranthene	**164**	ug/kg	16.3	2.7	1	03/23/21 09:29	03/24/21 17:49	207-08-9	
Chrysene	**215**	ug/kg	16.3	0.84	1	03/23/21 09:29	03/24/21 17:49	218-01-9	
Dibenz(a,h)anthracene	**46.6**	ug/kg	16.3	3.6	1	03/23/21 09:29	03/24/21 17:49	53-70-3	
Fluoranthene	**382**	ug/kg	16.3	1.2	1	03/23/21 09:29	03/24/21 17:49	206-44-0	
Fluorene	**39.1**	ug/kg	16.3	1.5	1	03/23/21 09:29	03/24/21 17:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**174**	ug/kg	16.3	3.1	1	03/23/21 09:29	03/24/21 17:49	193-39-5	
Naphthalene	**28.8**	ug/kg	16.3	3.2	1	03/23/21 09:29	03/24/21 17:49	91-20-3	
Phenanthrene	**253**	ug/kg	16.3	1.4	1	03/23/21 09:29	03/24/21 17:49	85-01-8	
Pyrene	**325**	ug/kg	16.3	1.8	1	03/23/21 09:29	03/24/21 17:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%.	37-88		1	03/23/21 09:29	03/24/21 17:49	321-60-8	
Terphenyl-d14 (S)	80	%.	10-128		1	03/23/21 09:29	03/24/21 17:49	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	12.4	2.3	1	03/24/21 11:35	03/24/21 16:07	91-20-3	
Surrogates									
Toluene-d8 (S)	104	%.	70-130		1	03/24/21 11:35	03/24/21 16:07	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 16:07	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 16:07	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 16:07	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**60.0**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-3 (0-0.5) **Lab ID: 30411349012** Collected: 03/17/21 11:00 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 9.71								
	Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:36	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:36	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21								
	Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 14:53	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 14:53	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 14:53	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	99	%.	70-130		10		03/26/21 14:53	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 14:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		10		03/26/21 14:53	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		03/26/21 14:53	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**66.9**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-4-U (0-0.5) **Lab ID: 30411349013** Collected: 03/17/21 11:55 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**5.8**	mg/kg	2.9	1.1	1	03/29/21 15:32	03/30/21 15:49	7440-38-2	
Lead	**18.5**	mg/kg	2.9	1.3	1	03/29/21 15:32	03/30/21 15:49	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	20.2	1.8	1	03/23/21 09:29	03/24/21 18:07	83-32-9	
Acenaphthylene	**48.4**	ug/kg	20.2	1.4	1	03/23/21 09:29	03/24/21 18:07	208-96-8	
Anthracene	**58.3**	ug/kg	20.2	1.8	1	03/23/21 09:29	03/24/21 18:07	120-12-7	
Benzo(a)anthracene	**241**	ug/kg	20.2	2.4	1	03/23/21 09:29	03/24/21 18:07	56-55-3	
Benzo(a)pyrene	**278**	ug/kg	20.2	1.3	1	03/23/21 09:29	03/24/21 18:07	50-32-8	
Benzo(b)fluoranthene	**564**	ug/kg	20.2	2.4	1	03/23/21 09:29	03/24/21 18:07	205-99-2	
Benzo(g,h,i)perylene	**121**	ug/kg	20.2	3.0	1	03/23/21 09:29	03/24/21 18:07	191-24-2	
Benzo(k)fluoranthene	**175**	ug/kg	20.2	3.4	1	03/23/21 09:29	03/24/21 18:07	207-08-9	
Chrysene	**321**	ug/kg	20.2	1.0	1	03/23/21 09:29	03/24/21 18:07	218-01-9	
Dibenz(a,h)anthracene	**43.2**	ug/kg	20.2	4.5	1	03/23/21 09:29	03/24/21 18:07	53-70-3	
Fluoranthene	**434**	ug/kg	20.2	1.5	1	03/23/21 09:29	03/24/21 18:07	206-44-0	
Fluorene	ND	ug/kg	20.2	1.9	1	03/23/21 09:29	03/24/21 18:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**121**	ug/kg	20.2	3.8	1	03/23/21 09:29	03/24/21 18:07	193-39-5	
Naphthalene	**30.6**	ug/kg	20.2	3.9	1	03/23/21 09:29	03/24/21 18:07	91-20-3	
Phenanthrene	**63.0**	ug/kg	20.2	1.8	1	03/23/21 09:29	03/24/21 18:07	85-01-8	
Pyrene	**485**	ug/kg	20.2	2.3	1	03/23/21 09:29	03/24/21 18:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%.	37-88		1	03/23/21 09:29	03/24/21 18:07	321-60-8	
Terphenyl-d14 (S)	93	%.	10-128		1	03/23/21 09:29	03/24/21 18:07	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	17.9	3.4	1	03/24/21 11:35	03/24/21 16:33	91-20-3	
Surrogates									
Toluene-d8 (S)	108	%.	70-130		1	03/24/21 11:35	03/24/21 16:33	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	70-130		1	03/24/21 11:35	03/24/21 16:33	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1	03/24/21 11:35	03/24/21 16:33	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 16:33	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**66.9**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-4 (0-0.5) **Lab ID: 30411349014** Collected: 03/17/21 12:00 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 10.37								
	Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:38	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:38	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21								
	Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 15:19	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 15:19	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 15:19	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	70-130		10		03/26/21 15:19	17060-07-0	
Toluene-d8 (S)	103	%.	70-130		10		03/26/21 15:19	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		10		03/26/21 15:19	460-00-4	
Dibromofluoromethane (S)	96	%.	70-130		10		03/26/21 15:19	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**64.4**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-5-U (0-0.5) **Lab ID: 30411349015** Collected: 03/17/21 13:35 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	ND	mg/kg	4.6	1.8	1	03/29/21 15:32	03/30/21 15:52	7440-38-2	
Lead	**14.8**	mg/kg	4.6	2.1	1	03/29/21 15:32	03/30/21 15:52	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	32.5	2.9	1	03/23/21 09:29	03/24/21 18:25	83-32-9	
Acenaphthylene	ND	ug/kg	32.5	2.3	1	03/23/21 09:29	03/24/21 18:25	208-96-8	
Anthracene	ND	ug/kg	32.5	2.9	1	03/23/21 09:29	03/24/21 18:25	120-12-7	
Benzo(a)anthracene	ND	ug/kg	32.5	3.8	1	03/23/21 09:29	03/24/21 18:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	32.5	2.0	1	03/23/21 09:29	03/24/21 18:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	32.5	3.9	1	03/23/21 09:29	03/24/21 18:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	32.5	4.9	1	03/23/21 09:29	03/24/21 18:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	32.5	5.5	1	03/23/21 09:29	03/24/21 18:25	207-08-9	
Chrysene	ND	ug/kg	32.5	1.7	1	03/23/21 09:29	03/24/21 18:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	32.5	7.2	1	03/23/21 09:29	03/24/21 18:25	53-70-3	
Fluoranthene	ND	ug/kg	32.5	2.5	1	03/23/21 09:29	03/24/21 18:25	206-44-0	
Fluorene	ND	ug/kg	32.5	3.0	1	03/23/21 09:29	03/24/21 18:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	32.5	6.2	1	03/23/21 09:29	03/24/21 18:25	193-39-5	
Naphthalene	ND	ug/kg	32.5	6.3	1	03/23/21 09:29	03/24/21 18:25	91-20-3	
Phenanthrene	ND	ug/kg	32.5	2.9	1	03/23/21 09:29	03/24/21 18:25	85-01-8	
Pyrene	ND	ug/kg	32.5	3.7	1	03/23/21 09:29	03/24/21 18:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	94	%.	37-88		1	03/23/21 09:29	03/24/21 18:25	321-60-8	ST
Terphenyl-d14 (S)	97	%.	10-128		1	03/23/21 09:29	03/24/21 18:25	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	21.3	4.0	1	03/24/21 11:35	03/24/21 16:59	91-20-3	
Surrogates									
Toluene-d8 (S)	112	%.	70-130		1	03/24/21 11:35	03/24/21 16:59	2037-26-5	
4-Bromofluorobenzene (S)	109	%.	70-130		1	03/24/21 11:35	03/24/21 16:59	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 16:59	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 16:59	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**79.7**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-5-D (0-0.5) **Lab ID: 30411349016** Collected: 03/17/21 13:30 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**10.5**	mg/kg	1.6	0.64	1	03/29/21 15:32	03/30/21 15:55	7440-38-2	
Lead	**13.6**	mg/kg	1.6	0.74	1	03/29/21 15:32	03/30/21 15:55	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	11.8	1.1	1	03/23/21 09:29	03/24/21 18:42	83-32-9	
Acenaphthylene	ND	ug/kg	11.8	0.85	1	03/23/21 09:29	03/24/21 18:42	208-96-8	
Anthracene	ND	ug/kg	11.8	1.1	1	03/23/21 09:29	03/24/21 18:42	120-12-7	
Benzo(a)anthracene	**47.5**	ug/kg	11.8	1.4	1	03/23/21 09:29	03/24/21 18:42	56-55-3	
Benzo(a)pyrene	**37.2**	ug/kg	11.8	0.74	1	03/23/21 09:29	03/24/21 18:42	50-32-8	
Benzo(b)fluoranthene	**63.3**	ug/kg	11.8	1.4	1	03/23/21 09:29	03/24/21 18:42	205-99-2	
Benzo(g,h,i)perylene	**15.9**	ug/kg	11.8	1.8	1	03/23/21 09:29	03/24/21 18:42	191-24-2	
Benzo(k)fluoranthene	**21.6**	ug/kg	11.8	2.0	1	03/23/21 09:29	03/24/21 18:42	207-08-9	
Chrysene	**48.9**	ug/kg	11.8	0.61	1	03/23/21 09:29	03/24/21 18:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	11.8	2.6	1	03/23/21 09:29	03/24/21 18:42	53-70-3	
Fluoranthene	**85.0**	ug/kg	11.8	0.90	1	03/23/21 09:29	03/24/21 18:42	206-44-0	
Fluorene	ND	ug/kg	11.8	1.1	1	03/23/21 09:29	03/24/21 18:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**14.9**	ug/kg	11.8	2.3	1	03/23/21 09:29	03/24/21 18:42	193-39-5	
Naphthalene	**13.2**	ug/kg	11.8	2.3	1	03/23/21 09:29	03/24/21 18:42	91-20-3	
Phenanthrene	**37.8**	ug/kg	11.8	1.0	1	03/23/21 09:29	03/24/21 18:42	85-01-8	
Pyrene	**76.8**	ug/kg	11.8	1.3	1	03/23/21 09:29	03/24/21 18:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	95	%.	37-88		1	03/23/21 09:29	03/24/21 18:42	321-60-8	ST
Terphenyl-d14 (S)	100	%.	10-128		1	03/23/21 09:29	03/24/21 18:42	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	11.1	2.1	1	03/24/21 11:35	03/24/21 17:24	91-20-3	
Surrogates									
Toluene-d8 (S)	105	%.	70-130		1	03/24/21 11:35	03/24/21 17:24	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	03/24/21 11:35	03/24/21 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 17:24	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1	03/24/21 11:35	03/24/21 17:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**44.7**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-5- (0-0.5) **Lab ID: 30411349017** Collected: 03/17/21 13:40 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 10.29								
	Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:41	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:41	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21								
	Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 15:45	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 15:45	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 15:45	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	70-130		10		03/26/21 15:45	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 15:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		03/26/21 15:45	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		03/26/21 15:45	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**80.5**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-6-U (0-0.5) **Lab ID: 30411349018** Collected: 03/17/21 16:00 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**7.2**	mg/kg	2.2	0.88	1	03/29/21 15:32	03/30/21 15:57	7440-38-2	
Lead	**15.9**	mg/kg	2.2	1.0	1	03/29/21 15:32	03/30/21 15:57	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	15.6	1.4	1	03/23/21 09:29	03/24/21 19:00	83-32-9	
Acenaphthylene	ND	ug/kg	15.6	1.1	1	03/23/21 09:29	03/24/21 19:00	208-96-8	
Anthracene	ND	ug/kg	15.6	1.4	1	03/23/21 09:29	03/24/21 19:00	120-12-7	
Benzo(a)anthracene	ND	ug/kg	15.6	1.8	1	03/23/21 09:29	03/24/21 19:00	56-55-3	
Benzo(a)pyrene	ND	ug/kg	15.6	0.97	1	03/23/21 09:29	03/24/21 19:00	50-32-8	
Benzo(b)fluoranthene	**26.8**	ug/kg	15.6	1.9	1	03/23/21 09:29	03/24/21 19:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	15.6	2.3	1	03/23/21 09:29	03/24/21 19:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	15.6	2.6	1	03/23/21 09:29	03/24/21 19:00	207-08-9	
Chrysene	**20.3**	ug/kg	15.6	0.80	1	03/23/21 09:29	03/24/21 19:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	15.6	3.5	1	03/23/21 09:29	03/24/21 19:00	53-70-3	
Fluoranthene	**20.1**	ug/kg	15.6	1.2	1	03/23/21 09:29	03/24/21 19:00	206-44-0	
Fluorene	ND	ug/kg	15.6	1.4	1	03/23/21 09:29	03/24/21 19:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	15.6	3.0	1	03/23/21 09:29	03/24/21 19:00	193-39-5	
Naphthalene	ND	ug/kg	15.6	3.0	1	03/23/21 09:29	03/24/21 19:00	91-20-3	
Phenanthrene	ND	ug/kg	15.6	1.4	1	03/23/21 09:29	03/24/21 19:00	85-01-8	
Pyrene	**18.1**	ug/kg	15.6	1.7	1	03/23/21 09:29	03/24/21 19:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	89	%.	37-88		1	03/23/21 09:29	03/24/21 19:00	321-60-8	ST
Terphenyl-d14 (S)	91	%.	10-128		1	03/23/21 09:29	03/24/21 19:00	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	13.5	2.5	1	03/24/21 11:35	03/24/21 17:50	91-20-3	
Surrogates									
Toluene-d8 (S)	104	%.	70-130		1	03/24/21 11:35	03/24/21 17:50	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	03/24/21 11:35	03/24/21 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 17:50	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	03/24/21 11:35	03/24/21 17:50	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**57.2**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-6 (0-0.5) **Lab ID: 30411349019** Collected: 03/17/21 16:05 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 03/25/21 13:45 Initial pH: ; Final pH: 10.67								
	Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/26/21 15:10	03/29/21 14:44	7440-38-2	3c,5c, 7c
Lead	ND	mg/L	0.025	0.0031	1	03/26/21 15:10	03/29/21 14:44	7439-92-1	3c,5c, 7c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21								
	Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 16:10	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 16:10	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 16:10	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%.	70-130		10		03/26/21 16:10	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 16:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		03/26/21 16:10	460-00-4	
Dibromofluoromethane (S)	98	%.	70-130		10		03/26/21 16:10	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**59.1**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SED-7-U (0-0.5) **Lab ID: 30411349020** Collected: 03/17/21 17:55 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Greensburg								
Arsenic	**14.7**	mg/kg	2.0	0.80	1	03/29/21 15:32	03/30/21 16:00	7440-38-2	
Lead	**23.2**	mg/kg	2.0	0.92	1	03/29/21 15:32	03/30/21 16:00	7439-92-1	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	15.4	1.4	1	03/23/21 09:29	03/24/21 19:18	83-32-9	
Acenaphthylene	ND	ug/kg	15.4	1.1	1	03/23/21 09:29	03/24/21 19:18	208-96-8	
Anthracene	ND	ug/kg	15.4	1.4	1	03/23/21 09:29	03/24/21 19:18	120-12-7	
Benzo(a)anthracene	**34.0**	ug/kg	15.4	1.8	1	03/23/21 09:29	03/24/21 19:18	56-55-3	
Benzo(a)pyrene	**40.7**	ug/kg	15.4	0.96	1	03/23/21 09:29	03/24/21 19:18	50-32-8	
Benzo(b)fluoranthene	**84.8**	ug/kg	15.4	1.8	1	03/23/21 09:29	03/24/21 19:18	205-99-2	
Benzo(g,h,i)perylene	**22.5**	ug/kg	15.4	2.3	1	03/23/21 09:29	03/24/21 19:18	191-24-2	
Benzo(k)fluoranthene	**24.6**	ug/kg	15.4	2.6	1	03/23/21 09:29	03/24/21 19:18	207-08-9	
Chrysene	**52.7**	ug/kg	15.4	0.80	1	03/23/21 09:29	03/24/21 19:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	15.4	3.4	1	03/23/21 09:29	03/24/21 19:18	53-70-3	
Fluoranthene	**46.9**	ug/kg	15.4	1.2	1	03/23/21 09:29	03/24/21 19:18	206-44-0	
Fluorene	ND	ug/kg	15.4	1.4	1	03/23/21 09:29	03/24/21 19:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**20.4**	ug/kg	15.4	2.9	1	03/23/21 09:29	03/24/21 19:18	193-39-5	
Naphthalene	**28.9**	ug/kg	15.4	3.0	1	03/23/21 09:29	03/24/21 19:18	91-20-3	
Phenanthrene	**46.1**	ug/kg	15.4	1.4	1	03/23/21 09:29	03/24/21 19:18	85-01-8	
Pyrene	**50.6**	ug/kg	15.4	1.7	1	03/23/21 09:29	03/24/21 19:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	91	%.	37-88		1	03/23/21 09:29	03/24/21 19:18	321-60-8	ST
Terphenyl-d14 (S)	93	%.	10-128		1	03/23/21 09:29	03/24/21 19:18	1718-51-0	
8260C MSV 5035 Low Level	Analytical Method: EPA 8260C Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/kg	14.0	2.6	1	03/24/21 11:35	03/24/21 18:16	91-20-3	
Surrogates									
Toluene-d8 (S)	107	%.	70-130		1	03/24/21 11:35	03/24/21 18:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	03/24/21 11:35	03/24/21 18:16	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1	03/24/21 11:35	03/24/21 18:16	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	03/24/21 11:35	03/24/21 18:16	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87 Pace Analytical Services - Greensburg								
Percent Moisture	**56.9**	%	0.10	0.10	1		03/22/21 15:50		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-7 (0-0.5) **Lab ID: 30411349021** Collected: 03/17/21 18:00 Received: 03/19/21 10:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP, SPLP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A								
	Leachate Method/Date: EPA 1312; 03/26/21 13:18 Initial pH: ; Final pH: 9								
	Pace Analytical Services - Greensburg								
Arsenic	ND	mg/L	0.025	0.0033	1	03/29/21 10:20	03/31/21 14:06	7440-38-2	4c,6c, 8c
Lead	ND	mg/L	0.025	0.0031	1	03/29/21 10:20	03/31/21 14:06	7439-92-1	4c,6c, 8c
8260C MSV SPLP	Analytical Method: EPA 8260C Leachate Method/Date: EPA 1312; 03/25/21 15:21								
	Pace Analytical Services - Greensburg								
Chlorobenzene	ND	ug/L	50.0	7.8	10		03/26/21 16:36	108-90-7	
Naphthalene	ND	ug/L	50.0	9.4	10		03/26/21 16:36	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	17.3	10		03/26/21 16:36	127-18-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	70-130		10		03/26/21 16:36	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		10		03/26/21 16:36	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		10		03/26/21 16:36	460-00-4	
Dibromofluoromethane (S)	97	%.	70-130		10		03/26/21 16:36	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
	Pace Analytical Services - Greensburg								
Percent Moisture	**62.2**	%	0.10	0.10	1		03/22/21 16:04		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Field Blank 1 **Lab ID: 30411349022** Collected: 03/16/21 14:30 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	03/23/21 16:05	03/25/21 14:22	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	03/23/21 16:05	03/25/21 14:22	7439-92-1	
Total Hardness by SM2340B-2011	**1.2**	ug/L			1	03/23/21 16:05	03/25/21 14:22		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.098	0.022	1	03/23/21 10:04	03/24/21 19:37	83-32-9	1c
Acenaphthylene	ND	ug/L	0.098	0.021	1	03/23/21 10:04	03/24/21 19:37	208-96-8	1c
Anthracene	ND	ug/L	0.098	0.022	1	03/23/21 10:04	03/24/21 19:37	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.098	0.080	1	03/23/21 10:04	03/24/21 19:37	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.098	0.025	1	03/23/21 10:04	03/24/21 19:37	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.098	0.041	1	03/23/21 10:04	03/24/21 19:37	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.098	0.030	1	03/23/21 10:04	03/24/21 19:37	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.098	0.041	1	03/23/21 10:04	03/24/21 19:37	207-08-9	1c
Chrysene	ND	ug/L	0.098	0.032	1	03/23/21 10:04	03/24/21 19:37	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.098	0.030	1	03/23/21 10:04	03/24/21 19:37	53-70-3	1c
Fluoranthene	ND	ug/L	0.098	0.020	1	03/23/21 10:04	03/24/21 19:37	206-44-0	1c
Fluorene	ND	ug/L	0.098	0.022	1	03/23/21 10:04	03/24/21 19:37	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.098	0.033	1	03/23/21 10:04	03/24/21 19:37	193-39-5	1c
Naphthalene	ND	ug/L	0.098	0.042	1	03/23/21 10:04	03/24/21 19:37	91-20-3	1c
Phenanthrene	ND	ug/L	0.098	0.027	1	03/23/21 10:04	03/24/21 19:37	85-01-8	1c
Pyrene	ND	ug/L	0.098	0.020	1	03/23/21 10:04	03/24/21 19:37	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	87	%.	19-92		1	03/23/21 10:04	03/24/21 19:37	321-60-8	
Terphenyl-d14 (S)	97	%.	55-109		1	03/23/21 10:04	03/24/21 19:37	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 12:51	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	70-130		1		03/27/21 12:51	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1		03/27/21 12:51	17060-07-0	
Toluene-d8 (S)	107	%.	70-130		1		03/27/21 12:51	2037-26-5	
Dibromofluoromethane (S)	98	%.	70-130		1		03/27/21 12:51	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Equipment Blank 1 **Lab ID: 30411349023** Collected: 03/16/21 09:00 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	03/23/21 16:05	03/25/21 14:25	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	03/23/21 16:05	03/25/21 14:25	7439-92-1	
Total Hardness by SM2340B-2011	**8.0**	ug/L			1	03/23/21 16:05	03/25/21 14:25		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 19:54	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 19:54	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 19:54	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.089	1	03/23/21 10:04	03/24/21 19:54	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.028	1	03/23/21 10:04	03/24/21 19:54	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.046	1	03/23/21 10:04	03/24/21 19:54	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.034	1	03/23/21 10:04	03/24/21 19:54	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.046	1	03/23/21 10:04	03/24/21 19:54	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.036	1	03/23/21 10:04	03/24/21 19:54	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.034	1	03/23/21 10:04	03/24/21 19:54	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.022	1	03/23/21 10:04	03/24/21 19:54	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 19:54	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.037	1	03/23/21 10:04	03/24/21 19:54	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.047	1	03/23/21 10:04	03/24/21 19:54	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.030	1	03/23/21 10:04	03/24/21 19:54	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 19:54	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	81	%.	19-92		1	03/23/21 10:04	03/24/21 19:54	321-60-8	
Terphenyl-d14 (S)	96	%.	55-109		1	03/23/21 10:04	03/24/21 19:54	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 13:17	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		03/27/21 13:17	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		03/27/21 13:17	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		1		03/27/21 13:17	2037-26-5	
Dibromofluoromethane (S)	95	%.	70-130		1		03/27/21 13:17	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Field Blank 2 **Lab ID: 30411349024** Collected: 03/16/21 17:05 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	03/23/21 16:05	03/25/21 14:28	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	03/23/21 16:05	03/25/21 14:28	7439-92-1	
Total Hardness by SM2340B-2011	**3.9**	ug/L			1	03/23/21 16:05	03/25/21 14:28		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 20:10	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 20:10	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 20:10	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.091	1	03/23/21 10:04	03/24/21 20:10	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.029	1	03/23/21 10:04	03/24/21 20:10	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.047	1	03/23/21 10:04	03/24/21 20:10	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.034	1	03/23/21 10:04	03/24/21 20:10	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.047	1	03/23/21 10:04	03/24/21 20:10	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.037	1	03/23/21 10:04	03/24/21 20:10	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.035	1	03/23/21 10:04	03/24/21 20:10	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 20:10	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.025	1	03/23/21 10:04	03/24/21 20:10	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.037	1	03/23/21 10:04	03/24/21 20:10	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.048	1	03/23/21 10:04	03/24/21 20:10	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.030	1	03/23/21 10:04	03/24/21 20:10	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 20:10	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	83	%.	19-92		1	03/23/21 10:04	03/24/21 20:10	321-60-8	
Terphenyl-d14 (S)	96	%.	55-109		1	03/23/21 10:04	03/24/21 20:10	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 13:44	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	70-130		1		03/27/21 13:44	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%.	70-130		1		03/27/21 13:44	17060-07-0	
Toluene-d8 (S)	106	%.	70-130		1		03/27/21 13:44	2037-26-5	
Dibromofluoromethane (S)	97	%.	70-130		1		03/27/21 13:44	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Equipment Blank 2 **Lab ID: 30411349025** Collected: 03/16/21 17:00 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - Greensburg								
Arsenic	ND	ug/L	10.0	3.3	1	03/23/21 16:05	03/25/21 14:31	7440-38-2	
Lead	ND	ug/L	10.0	3.1	1	03/23/21 16:05	03/25/21 14:31	7439-92-1	
Total Hardness by SM2340B-2011	**39.5**	ug/L			1	03/23/21 16:05	03/25/21 14:31		
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 20:27	83-32-9	1c
Acenaphthylene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 20:27	208-96-8	1c
Anthracene	ND	ug/L	0.11	0.023	1	03/23/21 10:04	03/24/21 20:27	120-12-7	1c
Benzo(a)anthracene	ND	ug/L	0.11	0.086	1	03/23/21 10:04	03/24/21 20:27	56-55-3	1c
Benzo(a)pyrene	ND	ug/L	0.11	0.027	1	03/23/21 10:04	03/24/21 20:27	50-32-8	1c
Benzo(b)fluoranthene	ND	ug/L	0.11	0.044	1	03/23/21 10:04	03/24/21 20:27	205-99-2	1c
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.032	1	03/23/21 10:04	03/24/21 20:27	191-24-2	1c
Benzo(k)fluoranthene	ND	ug/L	0.11	0.044	1	03/23/21 10:04	03/24/21 20:27	207-08-9	1c
Chrysene	ND	ug/L	0.11	0.034	1	03/23/21 10:04	03/24/21 20:27	218-01-9	1c
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.033	1	03/23/21 10:04	03/24/21 20:27	53-70-3	1c
Fluoranthene	ND	ug/L	0.11	0.021	1	03/23/21 10:04	03/24/21 20:27	206-44-0	1c
Fluorene	ND	ug/L	0.11	0.024	1	03/23/21 10:04	03/24/21 20:27	86-73-7	1c
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.035	1	03/23/21 10:04	03/24/21 20:27	193-39-5	1c
Naphthalene	ND	ug/L	0.11	0.045	1	03/23/21 10:04	03/24/21 20:27	91-20-3	1c
Phenanthrene	ND	ug/L	0.11	0.029	1	03/23/21 10:04	03/24/21 20:27	85-01-8	1c
Pyrene	ND	ug/L	0.11	0.022	1	03/23/21 10:04	03/24/21 20:27	129-00-0	1c
Surrogates									
2-Fluorobiphenyl (S)	78	%.	19-92		1	03/23/21 10:04	03/24/21 20:27	321-60-8	
Terphenyl-d14 (S)	94	%.	55-109		1	03/23/21 10:04	03/24/21 20:27	1718-51-0	
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 14:10	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		03/27/21 14:10	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1		03/27/21 14:10	17060-07-0	
Toluene-d8 (S)	103	%.	70-130		1		03/27/21 14:10	2037-26-5	
Dibromofluoromethane (S)	93	%.	70-130		1		03/27/21 14:10	1868-53-7	

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Trip Blank 1 **Lab ID: 30411349026** Collected: 03/16/21 00:01 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 14:37	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	70-130		1		03/27/21 14:37	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130		1		03/27/21 14:37	17060-07-0	
Toluene-d8 (S)	107	%.	70-130		1		03/27/21 14:37	2037-26-5	
Dibromofluoromethane (S)	98	%.	70-130		1		03/27/21 14:37	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Trip Blank 2 **Lab ID: 30411349027** Collected: 03/16/21 00:01 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 15:03	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	70-130		1		03/27/21 15:03	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1		03/27/21 15:03	17060-07-0	
Toluene-d8 (S)	105	%.	70-130		1		03/27/21 15:03	2037-26-5	
Dibromofluoromethane (S)	91	%.	70-130		1		03/27/21 15:03	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: Trip Blank 3 **Lab ID: 30411349028** Collected: 03/16/21 00:01 Received: 03/19/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260C MSV	Analytical Method: EPA 8260C Pace Analytical Services - Greensburg								
Naphthalene	ND	ug/L	2.0	0.82	1		03/27/21 15:30	91-20-3	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	70-130		1		03/27/21 15:30	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1		03/27/21 15:30	17060-07-0	
Toluene-d8 (S)	105	%.	70-130		1		03/27/21 15:30	2037-26-5	
Dibromofluoromethane (S)	96	%.	70-130		1		03/27/21 15:30	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-1(0-0.5) Leachate **Lab ID: 30411349029** Collected: 03/26/21 09:37 Received: 03/26/21 09:37 Matrix: Water
Comments: • sample is an SPLP leachate of 30411349 003

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 16:36	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 16:36	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 16:36	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 16:36	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 16:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 16:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 16:36	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 16:36	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 16:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 16:36	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 16:36	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 16:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 16:36	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 16:36	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 16:36	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 16:36	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%.	19-92		1	03/30/21 13:09	04/01/21 16:36	321-60-8	
Terphenyl-d14 (S)	95	%.	55-109		1	03/30/21 13:09	04/01/21 16:36	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-2(0-0.5) Leachate **Lab ID: 30411349030** Collected: 03/26/21 09:58 Received: 03/26/21 09:58 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 006

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 17:26	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 17:26	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 17:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 17:26	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 17:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 17:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:26	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 17:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 17:26	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 17:26	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 17:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 17:26	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:26	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 17:26	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 17:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	19-92		1	03/30/21 13:09	04/01/21 17:26	321-60-8	
Terphenyl-d14 (S)	91	%.	55-109		1	03/30/21 13:09	04/01/21 17:26	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-3(0-0.5) Leachate **Lab ID: 30411349031** Collected: 03/26/21 10:05 Received: 03/26/21 10:05 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 011

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 17:43	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 17:43	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 17:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 17:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 17:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 17:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:43	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 17:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 17:43	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 17:43	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 17:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 17:43	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 17:43	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 17:43	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 17:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	88	%.	19-92		1	03/30/21 13:09	04/01/21 17:43	321-60-8	
Terphenyl-d14 (S)	98	%.	55-109		1	03/30/21 13:09	04/01/21 17:43	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-4(0-0.5) Leachate **Lab ID: 30411349032** Collected: 03/26/21 10:29 Received: 03/26/21 10:29 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 014

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 18:00	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:00	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:00	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 18:00	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 18:00	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:00	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:00	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:00	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:00	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:00	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 18:00	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:00	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:00	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:00	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 18:00	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:00	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	19-92		1	03/30/21 13:09	04/01/21 18:00	321-60-8	
Terphenyl-d14 (S)	89	%.	55-109		1	03/30/21 13:09	04/01/21 18:00	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-5(0-0.5) Leachate **Lab ID: 30411349033** Collected: 03/26/21 10:30 Received: 03/26/21 10:30 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 017

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 18:17	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:17	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 18:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 18:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:17	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:17	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 18:17	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:17	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:17	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:17	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 18:17	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%.	19-92		1	03/30/21 13:09	04/01/21 18:17	321-60-8	
Terphenyl-d14 (S)	89	%.	55-109		1	03/30/21 13:09	04/01/21 18:17	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-6(0-0.5) Leachate **Lab ID: 30411349034** Collected: 03/26/21 10:44 Received: 03/26/21 10:44 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 019

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 18:33	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:33	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 18:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 18:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:33	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:33	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 18:33	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:33	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:33	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:33	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 18:33	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:33	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	87	%.	19-92		1	03/30/21 13:09	04/01/21 18:33	321-60-8	
Terphenyl-d14 (S)	94	%.	55-109		1	03/30/21 13:09	04/01/21 18:33	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Sample: SPLP-7(0-0.5) Leachate **Lab ID: 30411349035** Collected: 03/27/21 07:17 Received: 03/27/21 07:17 Matrix: Water
Comments: • Sample is an SPLP Leachate of 30411349 021

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.023	1	03/30/21 13:09	04/01/21 18:50	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:50	208-96-8	
Anthracene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	03/30/21 13:09	04/01/21 18:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	0.026	1	03/30/21 13:09	04/01/21 18:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:50	207-08-9	
Chrysene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.031	1	03/30/21 13:09	04/01/21 18:50	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.020	1	03/30/21 13:09	04/01/21 18:50	206-44-0	
Fluorene	ND	ug/L	0.10	0.022	1	03/30/21 13:09	04/01/21 18:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.033	1	03/30/21 13:09	04/01/21 18:50	193-39-5	
Naphthalene	ND	ug/L	0.10	0.042	1	03/30/21 13:09	04/01/21 18:50	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.027	1	03/30/21 13:09	04/01/21 18:50	85-01-8	
Pyrene	ND	ug/L	0.10	0.021	1	03/30/21 13:09	04/01/21 18:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81	%.	19-92		1	03/30/21 13:09	04/01/21 18:50	321-60-8	
Terphenyl-d14 (S)	89	%.	55-109		1	03/30/21 13:09	04/01/21 18:50	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440901 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B — Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

METHOD BLANK: 2128371 — Matrix: Solid
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.39	03/30/21 15:10	
Lead	mg/kg	ND	1.0	0.45	03/30/21 15:10	

LABORATORY CONTROL SAMPLE: 2128372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.8	100	80-120	
Lead	mg/kg	50	46.9	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128374 2128375

Parameter	Units	30411349005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	12.3	85.7	85.7	88.7	87.6	89	88	75-125	1	20	
Lead	mg/kg	18.5	85.7	85.7	92.0	89.5	86	83	75-125	3	20	

SAMPLE DUPLICATE: 2128373

Parameter	Units	30411349005 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/kg	12.3	14.2	14	20	
Lead	mg/kg	18.5	18.0	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440669 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3005A — Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019

METHOD BLANK: 2127416 — Matrix: Water
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/29/21 13:55	3c,5c,7c
Lead	mg/L	ND	0.025	0.0031	03/29/21 13:55	3c,5c,7c

METHOD BLANK: 2126160 — Matrix: Water
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/29/21 14:01	3c,5c,7c
Lead	mg/L	ND	0.025	0.0031	03/29/21 14:01	3c,5c,7c

METHOD BLANK: 2126190 — Matrix: Water
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/29/21 14:04	3c,5c,7c
Lead	mg/L	ND	0.025	0.0031	03/29/21 14:04	3c,5c,7c

LABORATORY CONTROL SAMPLE: 2127417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.47	93	80-120	3c,5c,7c
Lead	mg/L	0.5	0.47	93	80-120	3c,5c,7c

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127419 2127420

Parameter	Units	30411722002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.48	0.50	96	99	75-125	4	20	3c,5c,7c
Lead	mg/L	ND	0.5	0.5	0.48	0.49	95	99	75-125	4	20	3c,5c,7c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

MATRIX SPIKE SAMPLE: 2127422

Parameter	Units	7364343007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	0.5	0.51	101	75-125	3c,5c,7c
Lead	mg/L	ND	0.5	0.50	100	75-125	3c,5c,7c

SAMPLE DUPLICATE: 2127418

Parameter	Units	30411722002 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	3c,5c,7c
Lead	mg/L	ND	ND		20	3c,5c,7c

SAMPLE DUPLICATE: 2127421

Parameter	Units	7364343007 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	ND		20	3c,5c,7c
Lead	mg/L	ND	ND		20	3c,5c,7c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440834
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349021

METHOD BLANK: 2128138 Matrix: Water
Associated Lab Samples: 30411349021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/31/21 13:41	4c,6c,8c
Lead	mg/L	ND	0.025	0.0031	03/31/21 13:41	4c,6c,8c

METHOD BLANK: 2127082 Matrix: Water
Associated Lab Samples: 30411349021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/31/21 13:46	4c,6c,8c
Lead	mg/L	ND	0.025	0.0031	03/31/21 13:46	4c,6c,8c

METHOD BLANK: 2127083 Matrix: Water
Associated Lab Samples: 30411349021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	0.0033	03/31/21 13:49	4c,6c,8c
Lead	mg/L	ND	0.025	0.0031	03/31/21 13:49	4c,6c,8c

LABORATORY CONTROL SAMPLE: 2128139

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.5	0.50	100	80-120	4c,6c,8c
Lead	mg/L	0.5	0.49	99	80-120	4c,6c,8c

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128141 2128142

Parameter	Units	7364343001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.5	0.5	0.51	0.49	101	98	75-125	3	20	4c,6c, 8c
Lead	mg/L	0.0038J	0.5	0.5	0.50	0.48	99	96	75-125	3	20	4c,6c, 8c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

SAMPLE DUPLICATE: 2128140

Parameter	Units	7364343001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	mg/L	ND	.0035J		20	4c,6c,8c
Lead	mg/L	0.0038J	ND		20	4c,6c,8c

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440070
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025

METHOD BLANK: 2124625 Matrix: Water
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	ND	10.0	3.3	03/25/21 13:40	
Lead	ug/L	ND	10.0	3.1	03/25/21 13:40	
Total Hardness by SM2340B-2011	ug/L	-20			03/25/21 13:40	

LABORATORY CONTROL SAMPLE: 2124626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	491	98	80-120	
Lead	ug/L	500	485	97	80-120	
Total Hardness by SM2340B-2011	ug/L		33500			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2124628 2124629

Parameter	Units	30409429001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	506	504	101	100	75-125	0	20	
Lead	ug/L	ND	500	500	491	502	98	100	75-125	2	20	
Total Hardness by SM2340B-2011	ug/L	127000			154000	155000				1		

SAMPLE DUPLICATE: 2124627

Parameter	Units	30409429001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	ND	ND		20	
Lead	ug/L	ND	ND		20	
Total Hardness by SM2340B-2011	ug/L	127000	129000	1		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440200 | Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A | Analysis Description: 8260C MSV 5035 Low
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

METHOD BLANK: 2125238 Matrix: Solid
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/kg	ND	5.0	0.94	03/24/21 12:15	
1,2-Dichloroethane-d4 (S)	%.	97	70-130		03/24/21 12:15	
4-Bromofluorobenzene (S)	%.	100	70-130		03/24/21 12:15	
Dibromofluoromethane (S)	%.	99	70-130		03/24/21 12:15	
Toluene-d8 (S)	%.	101	70-130		03/24/21 12:15	

LABORATORY CONTROL SAMPLE: 2125239

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	20	16.7	83	65-110	
1,2-Dichloroethane-d4 (S)	%.			92	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Dibromofluoromethane (S)	%.			95	70-130	
Toluene-d8 (S)	%.			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2125240 2125241

Parameter	Units	30411349005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/kg	ND	47.3	31.1	16.9	13.5	36	43	10-154	22	30	
1,2-Dichloroethane-d4 (S)	%.						98	92	70-130			
4-Bromofluorobenzene (S)	%.						101	101	70-130			
Dibromofluoromethane (S)	%.						93	97	70-130			
Toluene-d8 (S)	%.						106	106	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440611 | Analysis Method: EPA 8260C
QC Batch Method: EPA 8260C | Analysis Description: 8260C MSV SPLP
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019, 30411349021

METHOD BLANK: 2126193 Matrix: Solid
Associated Lab Samples: 30411349003, 30411349006, 30411349012, 30411349014, 30411349017, 30411349019, 30411349021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chlorobenzene	ug/L	ND	50.0	7.8	03/26/21 12:44	
Naphthalene	ug/L	ND	50.0	9.4	03/26/21 12:44	
Tetrachloroethene	ug/L	ND	50.0	17.3	03/26/21 12:44	
1,2-Dichloroethane-d4 (S)	%.	97	70-130		03/26/21 12:44	
4-Bromofluorobenzene (S)	%.	99	70-130		03/26/21 12:44	
Dibromofluoromethane (S)	%.	96	70-130		03/26/21 12:44	
Toluene-d8 (S)	%.	103	70-130		03/26/21 12:44	

LABORATORY CONTROL SAMPLE: 2127167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	20	16.2	81	63-119	
Naphthalene	ug/L	20	17.1	86	65-110	
Tetrachloroethene	ug/L	20	16.3	82	57-124	
1,2-Dichloroethane-d4 (S)	%.			99	70-130	
4-Bromofluorobenzene (S)	%.			102	70-130	
Dibromofluoromethane (S)	%.			96	70-130	
Toluene-d8 (S)	%.			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127168 2127169

Parameter	Units	30411349003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	200	200	153	157	76	79	10-139	3	30	
Naphthalene	ug/L	ND	200	200	142	141	71	71	10-154	0	30	
Tetrachloroethene	ug/L	ND	200	200	157	160	78	80	10-144	2	30	
1,2-Dichloroethane-d4 (S)	%.						95	84	70-130			
4-Bromofluorobenzene (S)	%.						103	101	70-130			
Dibromofluoromethane (S)	%.						96	97	70-130			
Toluene-d8 (S)	%.						106	104	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440755
QC Batch Method: EPA 8260C
Analysis Method: EPA 8260C
Analysis Description: 8260C MSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025, 30411349026, 30411349027, 30411349028

METHOD BLANK: 2127872 Matrix: Water
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025, 30411349026, 30411349027, 30411349028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	2.0	0.82	03/27/21 11:32	
1,2-Dichloroethane-d4 (S)	%.	106	70-130		03/27/21 11:32	
4-Bromofluorobenzene (S)	%.	103	70-130		03/27/21 11:32	
Dibromofluoromethane (S)	%.	93	70-130		03/27/21 11:32	
Toluene-d8 (S)	%.	101	70-130		03/27/21 11:32	

LABORATORY CONTROL SAMPLE: 2127873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	20	18.7	94	55-160	
1,2-Dichloroethane-d4 (S)	%.			110	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			95	70-130	
Toluene-d8 (S)	%.			110	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2127992 2127993

Parameter	Units	7364590001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Naphthalene	ug/L	ND	20	20	15.2	16.2	76	81	30-157	7	30	
1,2-Dichloroethane-d4 (S)	%.						106	108	70-130			
4-Bromofluorobenzene (S)	%.						102	105	70-130			
Dibromofluoromethane (S)	%.						103	96	70-130			
Toluene-d8 (S)	%.						105	106	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 439827
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025

METHOD BLANK: 2123647 Matrix: Water
Associated Lab Samples: 30411349022, 30411349023, 30411349024, 30411349025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	03/24/21 15:41	
Acenaphthylene	ug/L	ND	0.10	0.021	03/24/21 15:41	
Anthracene	ug/L	ND	0.10	0.022	03/24/21 15:41	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	03/24/21 15:41	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	03/24/21 15:41	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	03/24/21 15:41	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	03/24/21 15:41	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	03/24/21 15:41	
Chrysene	ug/L	ND	0.10	0.033	03/24/21 15:41	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	03/24/21 15:41	
Fluoranthene	ug/L	ND	0.10	0.020	03/24/21 15:41	
Fluorene	ug/L	ND	0.10	0.022	03/24/21 15:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	03/24/21 15:41	
Naphthalene	ug/L	ND	0.10	0.042	03/24/21 15:41	
Phenanthrene	ug/L	ND	0.10	0.027	03/24/21 15:41	
Pyrene	ug/L	ND	0.10	0.021	03/24/21 15:41	
2-Fluorobiphenyl (S)	%.	90	19-92		03/24/21 15:41	
Terphenyl-d14 (S)	%.	102	55-109		03/24/21 15:41	

LABORATORY CONTROL SAMPLE: 2123648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.8	90	29-110	
Acenaphthylene	ug/L	2	1.8	89	28-121	
Anthracene	ug/L	2	1.8	92	40-115	
Benzo(a)anthracene	ug/L	2	2.0	99	63-119	
Benzo(a)pyrene	ug/L	2	1.9	96	56-121	
Benzo(b)fluoranthene	ug/L	2	1.9	97	61-126	
Benzo(g,h,i)perylene	ug/L	2	1.9	93	53-123	
Benzo(k)fluoranthene	ug/L	2	1.9	97	57-121	
Chrysene	ug/L	2	2.0	98	62-109	
Dibenz(a,h)anthracene	ug/L	2	2.0	99	55-125	
Fluoranthene	ug/L	2	2.0	100	55-121	
Fluorene	ug/L	2	1.9	93	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.9	97	56-124	
Naphthalene	ug/L	2	1.7	86	26-104	
Phenanthrene	ug/L	2	1.9	93	38-112	
Pyrene	ug/L	2	2.0	101	56-119	
2-Fluorobiphenyl (S)	%.			87	19-92	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

LABORATORY CONTROL SAMPLE: 2123648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%.			101	55-109	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 440962
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E By SIM
Analysis Description: 8270E PAH by SIM RV MSSV
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349029, 30411349030, 30411349031, 30411349032, 30411349033, 30411349034, 30411349035

METHOD BLANK: 2128667 Matrix: Water
Associated Lab Samples: 30411349029, 30411349030, 30411349031, 30411349032, 30411349033, 30411349034, 30411349035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	04/01/21 15:12	
Acenaphthylene	ug/L	ND	0.10	0.021	04/01/21 15:12	
Anthracene	ug/L	ND	0.10	0.022	04/01/21 15:12	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	04/01/21 15:12	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	04/01/21 15:12	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	04/01/21 15:12	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	04/01/21 15:12	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	04/01/21 15:12	
Chrysene	ug/L	ND	0.10	0.033	04/01/21 15:12	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	04/01/21 15:12	
Fluoranthene	ug/L	ND	0.10	0.020	04/01/21 15:12	
Fluorene	ug/L	ND	0.10	0.022	04/01/21 15:12	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	04/01/21 15:12	
Naphthalene	ug/L	ND	0.10	0.042	04/01/21 15:12	
Phenanthrene	ug/L	ND	0.10	0.027	04/01/21 15:12	
Pyrene	ug/L	ND	0.10	0.021	04/01/21 15:12	
2-Fluorobiphenyl (S)	%.	78	19-92		04/01/21 15:12	
Terphenyl-d14 (S)	%.	93	55-109		04/01/21 15:12	

METHOD BLANK: 2128668 Matrix: Water
Associated Lab Samples: 30411349029, 30411349030, 30411349031, 30411349032, 30411349033, 30411349034, 30411349035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	0.023	04/01/21 15:29	
Acenaphthylene	ug/L	ND	0.10	0.021	04/01/21 15:29	
Anthracene	ug/L	ND	0.10	0.022	04/01/21 15:29	
Benzo(a)anthracene	ug/L	ND	0.10	0.081	04/01/21 15:29	
Benzo(a)pyrene	ug/L	ND	0.10	0.026	04/01/21 15:29	
Benzo(b)fluoranthene	ug/L	ND	0.10	0.042	04/01/21 15:29	
Benzo(g,h,i)perylene	ug/L	ND	0.10	0.031	04/01/21 15:29	
Benzo(k)fluoranthene	ug/L	ND	0.10	0.042	04/01/21 15:29	
Chrysene	ug/L	ND	0.10	0.033	04/01/21 15:29	
Dibenz(a,h)anthracene	ug/L	ND	0.10	0.031	04/01/21 15:29	
Fluoranthene	ug/L	ND	0.10	0.020	04/01/21 15:29	
Fluorene	ug/L	ND	0.10	0.022	04/01/21 15:29	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	0.033	04/01/21 15:29	
Naphthalene	ug/L	ND	0.10	0.042	04/01/21 15:29	
Phenanthrene	ug/L	ND	0.10	0.027	04/01/21 15:29	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

METHOD BLANK: 2128668 Matrix: Water
Associated Lab Samples: 30411349029, 30411349030, 30411349031, 30411349032, 30411349033, 30411349034, 30411349035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Pyrene	ug/L	ND	0.10	0.021	04/01/21 15:29	
2-Fluorobiphenyl (S)	%.	86	19-92		04/01/21 15:29	
Terphenyl-d14 (S)	%.	95	55-109		04/01/21 15:29	

LABORATORY CONTROL SAMPLE: 2128669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	2	1.7	84	29-110	
Acenaphthylene	ug/L	2	1.7	85	28-121	
Anthracene	ug/L	2	1.8	88	40-115	
Benzo(a)anthracene	ug/L	2	2.1	103	63-119	
Benzo(a)pyrene	ug/L	2	2.1	103	56-121	
Benzo(b)fluoranthene	ug/L	2	2.1	104	61-126	
Benzo(g,h,i)perylene	ug/L	2	2.1	106	53-123	
Benzo(k)fluoranthene	ug/L	2	2.0	99	57-121	
Chrysene	ug/L	2	2.0	98	62-109	
Dibenz(a,h)anthracene	ug/L	2	2.3	114	55-125	
Fluoranthene	ug/L	2	1.9	97	55-121	
Fluorene	ug/L	2	1.8	88	30-119	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.2	111	56-124	
Naphthalene	ug/L	2	1.7	83	26-104	
Phenanthrene	ug/L	2	1.8	89	38-112	
Pyrene	ug/L	2	1.9	97	56-119	
2-Fluorobiphenyl (S)	%.			79	19-92	
Terphenyl-d14 (S)	%.			94	55-109	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128670 2128671

Parameter	Units	30411349029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	2	2	1.5	1.5	76	75	10-125	1	20	
Acenaphthylene	ug/L	ND	2	2	1.6	1.6	78	78	21-116	1	20	
Anthracene	ug/L	ND	2	2	1.6	1.6	82	80	26-114	3	20	
Benzo(a)anthracene	ug/L	ND	2	2	2.1	2.0	106	100	39-123	7	20	
Benzo(a)pyrene	ug/L	ND	2	2	2.0	1.8	98	91	24-126	8	20	
Benzo(b)fluoranthene	ug/L	ND	2	2	2.0	1.9	99	95	24-135	4	20	
Benzo(g,h,i)perylene	ug/L	ND	2	2	1.8	1.6	89	82	10-132	8	20	
Benzo(k)fluoranthene	ug/L	ND	2	2	2.0	1.9	101	95	25-123	7	20	
Chrysene	ug/L	ND	2	2	2.0	1.9	100	94	38-113	6	20	
Dibenz(a,h)anthracene	ug/L	ND	2	2	2.2	2.0	110	101	13-122	8	20	
Fluoranthene	ug/L	ND	2	2	1.9	1.8	95	90	32-123	5	20	
Fluorene	ug/L	ND	2	2	1.6	1.6	80	78	10-134	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2128670 2128671

Parameter	Units	30411349029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Indeno(1,2,3-cd)pyrene	ug/L	ND	2	2	2.0	1.8	99	91	10-132	8	20	
Naphthalene	ug/L	ND	2	2	1.5	1.5	75	76	17-98	1	20	
Phenanthrene	ug/L	ND	2	2	1.7	1.6	84	81	26-116	4	20	
Pyrene	ug/L	ND	2	2	1.9	1.8	95	91	31-125	4	20	
2-Fluorobiphenyl (S)	%.						72	71	19-92		20	
Terphenyl-d14 (S)	%.						93	86	55-109		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 439851
QC Batch Method: EPA 3546
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E/3546 MSSV PAH by SIM
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

METHOD BLANK: 2123715 Matrix: Solid
Associated Lab Samples: 30411349001, 30411349002, 30411349004, 30411349005, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349013, 30411349015, 30411349016, 30411349018, 30411349020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	6.6	0.60	03/24/21 13:23	
Acenaphthylene	ug/kg	ND	6.6	0.48	03/24/21 13:23	
Anthracene	ug/kg	ND	6.6	0.60	03/24/21 13:23	
Benzo(a)anthracene	ug/kg	ND	6.6	0.78	03/24/21 13:23	
Benzo(a)pyrene	ug/kg	ND	6.6	0.42	03/24/21 13:23	
Benzo(b)fluoranthene	ug/kg	ND	6.6	0.80	03/24/21 13:23	
Benzo(g,h,i)perylene	ug/kg	ND	6.6	1.0	03/24/21 13:23	
Benzo(k)fluoranthene	ug/kg	ND	6.6	1.1	03/24/21 13:23	
Chrysene	ug/kg	ND	6.6	0.34	03/24/21 13:23	
Dibenz(a,h)anthracene	ug/kg	ND	6.6	1.5	03/24/21 13:23	
Fluoranthene	ug/kg	ND	6.6	0.50	03/24/21 13:23	
Fluorene	ug/kg	ND	6.6	0.62	03/24/21 13:23	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	6.6	1.3	03/24/21 13:23	
Naphthalene	ug/kg	ND	6.6	1.3	03/24/21 13:23	
Phenanthrene	ug/kg	ND	6.6	0.59	03/24/21 13:23	
Pyrene	ug/kg	ND	6.6	0.75	03/24/21 13:23	
2-Fluorobiphenyl (S)	%.	92	37-88		03/24/21 13:23	ST
Terphenyl-d14 (S)	%.	106	10-128		03/24/21 13:23	

LABORATORY CONTROL SAMPLE: 2123716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	131	117	89	47-104	
Acenaphthylene	ug/kg	131	124	95	49-115	
Anthracene	ug/kg	131	129	99	52-115	
Benzo(a)anthracene	ug/kg	131	134	102	54-130	
Benzo(a)pyrene	ug/kg	131	139	106	59-126	
Benzo(b)fluoranthene	ug/kg	131	142	108	55-133	
Benzo(g,h,i)perylene	ug/kg	131	133	101	54-127	
Benzo(k)fluoranthene	ug/kg	131	137	105	56-120	
Chrysene	ug/kg	131	130	99	56-115	
Dibenz(a,h)anthracene	ug/kg	131	135	103	55-129	
Fluoranthene	ug/kg	131	132	101	56-125	
Fluorene	ug/kg	131	124	95	50-114	
Indeno(1,2,3-cd)pyrene	ug/kg	131	133	101	55-129	
Naphthalene	ug/kg	131	113	86	45-102	
Phenanthrene	ug/kg	131	127	97	50-110	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

LABORATORY CONTROL SAMPLE: 2123716

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	131	130	99	56-122	
2-Fluorobiphenyl (S)	%.			93	37-88	ST
Terphenyl-d14 (S)	%.			105	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2123717 2123718

Parameter	Units	30411349005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/kg	ND	250	252	220	226	84	86	24-109	3	20	
Acenaphthylene	ug/kg	18.2	250	252	257	253	96	93	26-119	2	20	
Anthracene	ug/kg	33.1	250	252	276	266	97	93	32-115	3	20	
Benzo(a)anthracene	ug/kg	116	250	252	365	308	100	77	30-133	17	20	
Benzo(a)pyrene	ug/kg	105	250	252	340	306	94	80	11-151	10	20	
Benzo(b)fluoranthene	ug/kg	240	250	252	470	382	92	57	25-140	21	20	R1
Benzo(g,h,i)perylene	ug/kg	55.3	250	252	257	239	81	73	10-126	7	20	
Benzo(k)fluoranthene	ug/kg	66.8	250	252	326	283	104	86	25-127	14	20	
Chrysene	ug/kg	181	250	252	426	317	98	54	10-142	29	20	R1
Dibenz(a,h)anthracene	ug/kg	19.4	250	252	226	229	83	83	13-127	1	20	
Fluoranthene	ug/kg	248	250	252	515	368	107	47	20-139	33	20	R1
Fluorene	ug/kg	ND	250	252	232	238	89	91	28-114	3	20	
Indeno(1,2,3-cd)pyrene	ug/kg	53.0	250	252	260	247	83	77	15-123	5	20	
Naphthalene	ug/kg	16.6	250	252	228	224	85	83	15-104	2	20	
Phenanthrene	ug/kg	61.7	250	252	308	273	99	84	10-135	12	20	
Pyrene	ug/kg	234	250	252	486	355	101	48	13-139	31	20	R1
2-Fluorobiphenyl (S)	%.						87	93	37-88			ST
Terphenyl-d14 (S)	%.						90	103	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 439721
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30411349001, 30411349002, 30411349003, 30411349004, 30411349005, 30411349006, 30411349007, 30411349008, 30411349009, 30411349010, 30411349011, 30411349012, 30411349013, 30411349014, 30411349015, 30411349016, 30411349017, 30411349018, 30411349019, 30411349020

SAMPLE DUPLICATE: 2123278

Parameter	Units	30411349001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	52.7	49.5	6	20	

SAMPLE DUPLICATE: 2123279

Parameter	Units	30411349002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	36.0	34.0	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

QC Batch: 439722
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30411349021

SAMPLE DUPLICATE: 2123280

Parameter	Units	30411449001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.2	24.5	6	20	

SAMPLE DUPLICATE: 2123281

Parameter	Units	30411449002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.6	26.1	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 439827

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 440718

[1] The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.

[2] The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.

[3] The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.

Batch: 440936

[1] The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.

[2] The CCB for Be and Mn is greater than the MDL for 7364343-001 and 005 for SPLP metals.

[3] The ICB and CCB for Sr are greater than the MDL for 30412191-002 and 005 for SPLP metals.

ANALYTE QUALIFIERS

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

3c The CCB for B, Be, Mo, Sr and V are greater than the MDL for 7364343-003,007, and 009 for SPLP metals.

4c The CCB for Be and Mn is greater than the MDL for 7364343-001 and 005 for SPLP metals.

5c The ICB and CCB for Sr are greater than the MDL for 30411722-002,005,008, 30411349-003,006,012,014,017 and 019 for SPLP metals.

6c The ICB and CCB for Sr are greater than the MDL for 30412191-002 and 005 for SPLP metals.

7c The ICB for B, Be, Mo, and Sr is greater than the MDL for 7364343-003, 007, and 009 for SPLP metals.

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

ANALYTE QUALIFIERS

8c	The ICB for Be, Mo, and Tl is greater than the MDL for 7364343-001 and 005 for SPLP metals.
R1	RPD value was outside control limits.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30411349001	**SED-1-U (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349002	**SED-1-D (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349004	**SED-2-U (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349005	**SED-2-D (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349007	**SED-2-D (0-0.5) MS**	EPA 3050B	440901	EPA 6010D	440949
30411349008	**SED-2-D (0-0.5) MSD**	EPA 3050B	440901	EPA 6010D	440949
30411349009	**SED-2-D (0-0.5) Dup**	EPA 3050B	440901	EPA 6010D	440949
30411349010	**SED-3-U (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349011	**SED-3-D (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349013	**SED-4-U (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349015	**SED-5-U (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349016	**SED-5-D (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349018	**SED-6-U (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349020	**SED-7-U (0-0.5)**	EPA 3050B	440901	EPA 6010D	440949
30411349003	**SPLP-1 (0-0.5)**	EPA 3005A	440669	EPA 6010D	440718
30411349006	**SPLP-2 (0-0.5)**	EPA 3005A	440669	EPA 6010D	440718
30411349012	**SPLP-3 (0-0.5)**	EPA 3005A	440669	EPA 6010D	440718
30411349014	**SPLP-4 (0-0.5)**	EPA 3005A	440669	EPA 6010D	440718
30411349017	**SPLP-5- (0-0.5)**	EPA 3005A	440669	EPA 6010D	440718
30411349019	**SPLP-6 (0-0.5)**	EPA 3005A	440669	EPA 6010D	440718
30411349021	**SPLP-7 (0-0.5)**	EPA 3005A	440834	EPA 6010D	440936
30411349022	**Field Blank 1**	EPA 3005A	440070	EPA 6010D	440125
30411349023	**Equipment Blank 1**	EPA 3005A	440070	EPA 6010D	440125
30411349024	**Field Blank 2**	EPA 3005A	440070	EPA 6010D	440125
30411349025	**Equipment Blank 2**	EPA 3005A	440070	EPA 6010D	440125
30411349022	**Field Blank 1**	EPA 3510C	439827	EPA 8270E By SIM	440081
30411349023	**Equipment Blank 1**	EPA 3510C	439827	EPA 8270E By SIM	440081
30411349024	**Field Blank 2**	EPA 3510C	439827	EPA 8270E By SIM	440081
30411349025	**Equipment Blank 2**	EPA 3510C	439827	EPA 8270E By SIM	440081
30411349029	**SPLP-1(0-0.5) Leachate**	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349030	**SPLP-2(0-0.5) Leachate**	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349031	**SPLP-3(0-0.5) Leachate**	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349032	**SPLP-4(0-0.5) Leachate**	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349033	**SPLP-5(0-0.5) Leachate**	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349034	**SPLP-6(0-0.5) Leachate**	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349035	**SPLP-7(0-0.5) Leachate**	EPA 3510C	440962	EPA 8270E By SIM	441085
30411349001	**SED-1-U (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349002	**SED-1-D (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349004	**SED-2-U (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349005	**SED-2-D (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349007	**SED-2-D (0-0.5) MS**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349008	**SED-2-D (0-0.5) MSD**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349009	**SED-2-D (0-0.5) Dup**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349010	**SED-3-U (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349011	**SED-3-D (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349013	**SED-4-U (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30411349015	**SED-5-U (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349016	**SED-5-D (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349018	**SED-6-U (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349020	**SED-7-U (0-0.5)**	EPA 3546	439851	EPA 8270E by SIM	440074
30411349001	**SED-1-U (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349002	**SED-1-D (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349004	**SED-2-U (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349005	**SED-2-D (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349007	**SED-2-D (0-0.5) MS**	EPA 5035A	440200	EPA 8260C	440207
30411349008	**SED-2-D (0-0.5) MSD**	EPA 5035A	440200	EPA 8260C	440207
30411349009	**SED-2-D (0-0.5) Dup**	EPA 5035A	440200	EPA 8260C	440207
30411349010	**SED-3-U (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349011	**SED-3-D (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349013	**SED-4-U (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349015	**SED-5-U (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349016	**SED-5-D (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349018	**SED-6-U (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349020	**SED-7-U (0-0.5)**	EPA 5035A	440200	EPA 8260C	440207
30411349003	**SPLP-1 (0-0.5)**	EPA 8260C	440611		
30411349006	**SPLP-2 (0-0.5)**	EPA 8260C	440611		
30411349012	**SPLP-3 (0-0.5)**	EPA 8260C	440611		
30411349014	**SPLP-4 (0-0.5)**	EPA 8260C	440611		
30411349017	**SPLP-5- (0-0.5)**	EPA 8260C	440611		
30411349019	**SPLP-6 (0-0.5)**	EPA 8260C	440611		
30411349021	**SPLP-7 (0-0.5)**	EPA 8260C	440611		
30411349022	**Field Blank 1**	EPA 8260C	440755		
30411349023	**Equipment Blank 1**	EPA 8260C	440755		
30411349024	**Field Blank 2**	EPA 8260C	440755		
30411349025	**Equipment Blank 2**	EPA 8260C	440755		
30411349026	**Trip Blank 1**	EPA 8260C	440755		
30411349027	**Trip Blank 2**	EPA 8260C	440755		
30411349028	**Trip Blank 3**	EPA 8260C	440755		
30411349001	**SED-1-U (0-0.5)**	ASTM D2974-87	439721		
30411349002	**SED-1-D (0-0.5)**	ASTM D2974-87	439721		
30411349003	**SPLP-1 (0-0.5)**	ASTM D2974-87	439721		
30411349004	**SED-2-U (0-0.5)**	ASTM D2974-87	439721		
30411349005	**SED-2-D (0-0.5)**	ASTM D2974-87	439721		
30411349006	**SPLP-2 (0-0.5)**	ASTM D2974-87	439721		
30411349007	**SED-2-D (0-0.5) MS**	ASTM D2974-87	439721		
30411349008	**SED-2-D (0-0.5) MSD**	ASTM D2974-87	439721		
30411349009	**SED-2-D (0-0.5) Dup**	ASTM D2974-87	439721		
30411349010	**SED-3-U (0-0.5)**	ASTM D2974-87	439721		
30411349011	**SED-3-D (0-0.5)**	ASTM D2974-87	439721		
30411349012	**SPLP-3 (0-0.5)**	ASTM D2974-87	439721		
30411349013	**SED-4-U (0-0.5)**	ASTM D2974-87	439721		
30411349014	**SPLP-4 (0-0.5)**	ASTM D2974-87	439721		
30411349015	**SED-5-U (0-0.5)**	ASTM D2974-87	439721		

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cheat Rail Trail 60589127
Pace Project No.: 30411349

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30411349016	**SED-5-D (0-0.5)**	ASTM D2974-87	439721		
30411349017	**SPLP-5- (0-0.5)**	ASTM D2974-87	439721		
30411349018	**SED-6-U (0-0.5)**	ASTM D2974-87	439721		
30411349019	**SPLP-6 (0-0.5)**	ASTM D2974-87	439721		
30411349020	**SED-7-U (0-0.5)**	ASTM D2974-87	439721		
30411349021	**SPLP-7 (0-0.5)**	ASTM D2974-87	439722		

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

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

WO# : 30411349

30411349

LAB USE ONLY ... ber or

Container Preservative Type

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Company: AECOM	Billing Information:
Address: 1505 Beech St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@AECOM.com
Copy To:	Site Collection Info/Address: FOC Rail Trail
Customer Project Name/Number: Cheat Rail Trail 60589127	State: WV / County/City: Preston / Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: / Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Nolman / Matthew Watson	Purchase Order #: / Quote #: 00071691 / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No / Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses: VOCs, Naphthalene / PAHs, Metals, SVOCs / SPLP Leachate / Trip Blank

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	(Y)	N NA
Custody Signatures Present	(Y)	N NA
Collector Signature Present	(Y)	N NA
Bottles Intact	(Y)	N NA
Correct Bottles	(Y)	N NA
Sufficient Volume	(Y)	N NA
Samples Received on Ice	(Y)	N NA
VOA - Headspace Acceptable	(Y)	N NA
USDA Regulated Soils	Y	(N) NA
Samples in Holding Time	(Y)	N NA
Residual Chlorine Present	Y	(N) NA
Cl Strips:		
Sample pH Acceptable	(Y)	N NA
pH Strips: 1000401		
Sulfide Present	Y	N (NA)
Lead Acetate Strips:		

LAB USE ONLY:
Lab Sample # / Comments: NJD/JLB

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs, Naphthalene	PAHs, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Sample #
SED-1-U(0-0.5)	SL	G	3/16/21	1616				5	X	X			001
SED-1-D(0-0.5)	SL	G	3/16/21	1616				5	X	X			002
SPLP-1(0-0.5)	SL	G	3/16/21	1610				1			X		003
SED-2-U(0-0.5)	SL	G	3/17/21	0930				5	X	X			004
SED-2-D(0-0.5)	SL	G	3/17/21	0930				5	X	X			005
SPLP-2(0-0.5)	SL	G	3/17/21	0930				1			X		006
SED-2-D(0-0.5)MS	SL	G	3/17/21	0940				5	X	X			007
SED-2-D(0-0.5)MSD	SL	G	3/17/21	0945				5	X	X			008
SED-2-D(0-0.5)Dup	SL	G	3/17/21	0930				5	X	X			009
SED-3-U(0-0.5)	SL	G	3/17/21	1055				5	X	X			010

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ice

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 7849 2012 9296 2623890

Samples received via: (FEDEX) UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 11
Cooler 1 Temp Upon Receipt: 4.7 oC
Cooler 1 Therm Corr. Factor: 0.0 oC
Cooler 1 Corrected Temp: 4.7 oC
Comments: NJD 3/19/21

Relinquished by/Company: (Signature) AECOM	Date/Time: 3/18/21 1710	Received by/Company: (Signature)	Date/Time: 3/19/21 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): YES / (NO)

Page: 1 of: 3

Page 84 of 883

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

30411349

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Booth St. Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: FOC Rail Trail
Customer Project Name/Number: Cheat Rail Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Newman / Matthew Watson	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs Napthalene	PAH's, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Sample # / Comments
SED-3-D (0-0.5)	SL	G	3/17/21	1050				5	X	X			011
SPLP-3 (0-0.5)	SL	G	3/17/21	1100				1			X		012
SED-4-U (0-0.5)	SL	G	3/17/21	1155				5	X	X			013
SPLP-4 (0-0.5)	SL	G	3/17/21	1200				1			X		014
SED-5-U (0-0.5)	SL	G	3/17/21	1335				5	X	X			015
SED-5-D (0-0.5)	SL	G	3/17/21	1336				5	X	X			016
SPLP-5 (0-0.5)	SL	G	3/17/21	1340				1			X		017
SED-6-U (0-0.5)	SL	G	3/17/21	1600				5	X	X			018
SPLP-6 (0-0.5)	SL	G	3/17/21	1605				1			X		019
SED-7-U (0-0.5)	SL	G	3/17/21	1755				5	X	X			020

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Lab Sample # / Comments: SEE PAGE ONE

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2623891

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: ____oC

Cooler 1 Therm Corr. Factor: ____oC

Cooler 1 Corrected Temp: ____oC

Comments:

Relinquished by/Company: (Signature) AECOM	Date/Time: 3/18/21 1710	Received by/Company: (Signature)	Date/Time: 3/19/21 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 3

Page 82 of 83

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Numb

MTJL Log-in Number Here

30411349

ALL SHADED AREAS are for LAB USE ONLY

Company: AECOM	Billing Information:
Address: 1505 Beech St Kenova, WV	
Report To: Matthew Watson	Email To: Matthew.Watson@aecom.com
Copy To:	Site Collection Info/Address: FOC Rail Trail
Customer Project Name/Number: Cheat Rail Trail 60589127	State: WV County/City: Preston Time Zone Collected: [ ]PT [ ]MT [ ]CT [X]ET
Phone: Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Jason Neuman / Matthew Watson	Purchase Order #: Quote #: 00071691 DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs, Naphthalene	PAHs, Metals, SVOCs	SPLP Leachate	Trip Blank	Lab Sample # / Comments
SPLP-7 (0-0.5)	SL	G	3/17/21	1800				1			X		021
Field Blank 1	WT	G	3/16/21	1430				5	X	X			022
Equipment Blank 1	WT	G	3/17/21	0900				5	X	X			023
Field Blank 2	WT	G	3/17/21	1705				5	X	X			024
Equipment Blank 2	WT	G	3/17/21	1700				5	X	X			025
Trip Blank 1	WT	Lab	Lab	Lab				2				X	026
Trip Blank 2	WT	Lab	Lab	Lab				2				X	027
Trip Blank 3	WT	Lab	Lab	Lab				2				X	028

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Lab Sample # / Comments: see page one

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#:

Cooler 1 Temp Upon Receipt: ____oC

Cooler 1 Therm Corr. Factor: ____oC

Cooler 1 Corrected Temp: ____oC

Comments:

Relinquished by/Company: (Signature) AECOM	Date/Time: 3/18/21 1710	Received by/Company: (Signature)	Date/Time: 3/19/21 1000
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 3 of: 3

Page 83 of 83

Appendix E
Soil Boring Logs

LOG OF SOIL BORING SSS/SSB-01

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)	Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date: **N/A** / DW: **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig: **Geoprobe 6620 DT**		GPS Type: **GNSS RTK**
Date Started: **2/12/2021**	Date Completed: **2/12/2021**	Technician: **Kevin Booton/Jason Newman**		Location Coordinates **N 39°21'19.71" W 79°41'15.86"**
Completion Depth: **11'**			Well Registration No. **N/A**	

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES: Interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0				N/A	
	0.5					0-1'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					1-2' Brown (10YR 4/3), Silty CLAY, Medium soft, Moist
	2		**SSS-01**			Sample SSS-01
	2.5					
	3			**4.5**		2-6' Very dark gray (10 YR 3/1), Silty CLAY, Medium soft, Moist
	3.5					
	4					
	4.5					
	5					
	5.5					Sample SSB-01
	6		**SSB-01**			6-7.5' Very dark gray (10 YR 3/1) mottled with gray, Silty CLAY, Medium soft, Moist
	6.5					
	7					
	7.5			**4.5**		7.5-8' Light brownish gray (10YR 6/2), Silty Clay, Stiff, Moist
	8					
	8.5					8-9.5' Brown (10YR 4/3), Silty CLAY, Stiff, Moist
	9					
	9.5					
	10					9.5-11' Brown (7.5YR 5/3), Silty CLAY, 25% Fine sandstone, Medium soft, Moist
	10.5			**1.0**		
	11					**11' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-02

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/10/2021**	Date Completed: **2/10/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°22'15.97" W 79°41'54.28"**
Completion Depth: **11'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5					0-1'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					1-2' Very dark brown (10 YR 2/2), Silty CLAY, 10% fine assorted gravel, Medium soft, Moist
	2		SSS-02	**4.75**		Sample SSS-02
	2.5					
	3					2-3.5' Grayish brown (10 YR 5/2), Silty CLAY, Medium soft, Moist
	3.5					
	4					3.5-5.5' Black (7.5 YR 2.5/1) mottled with brown, Silty CLAY, Medium soft, Moist
	4.5					
	5					
	5.5					Sample SSB-02
	6		SSB-02			5.5-7' Grayish brown (10YR 5/2), Silty CLAY, 15% fune sandstine, Medium soft, Moist
	6.5					
	7					
	7.5			**4.25**		
	8					7-9.5' Brown (10YR 4/3), mottled with gray, Silty CLAY, Medium soft, Moist
	8.5					
	9					
	9.5					
	10					9.5-11' Brown (10YR 4/3), Silty CLAY, Stiff, Moist
	10.5			**0.90**		
	11					**11' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-03

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/10/2021**	Date Completed: **2/10/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°22'45.58" W 79°42'17.96"**
Completion Depth: **11.5'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5					0-1.5'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					
	2					1.5-3.5' Very dark gray (7.5 YR 3/1), Silty CLAY, 10% assorted gravel, Medium soft, Moist
	2.5		SSS-03	**4.5**		Sample SSS-03
	3					
	3.5					
	4					
	4.5					3.5-6.5' Grayish brown (10YR 5/2) mottled with brown, Silty CLAY, Medium soft, Moist
	5					
	5.5					
	6					
	6.5		SSB-03			Sample SSB-03
	7					
	7.5			**5.0**		6.5-10.5' Brown (7.5YR 4/3), Silty Clay, Medium Soft, Moist
	8					
	8.5					
	9					
	9.5					
	10					
	10.5			**1.5**		10.5-11.5' Brown (7.5YR 4/3), Silty Clay, 15% medium sandstone, Stiff, Moist
	11					
	11.5					**11.5' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-04

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/10/2021**	Date Completed: **2/10/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°23'20.30" W 79°41'59.85"**
Completion Depth: **11'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					0-1'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	0.5					
	1					1-2' Very dark gray (7.5 YR 3/1), Silty CLAY, Rootlets, Soft, Moist
	1.5					
	2		SSS-04	4.25		Sample SSS-04
	2.5					2-3' Very dark gray (7.5 YR 3/1), Silty CLAY, 5% assorted gravel, Medium soft, Moist
	3					
	3.5					
	4					
	4.5					3-5' Dark gray (7.5 YR 4/1), Silty CLAY, Stiff, Moist
	5					Sample SSB-04
	5.5					5-6' Dark gray (7.5 YR 4/1) mottled with brown, Silty CLAY, Stiff, Moist
	6		SSB-04			
	6.5					
	7					6-8' Brown (7.5YR 4/3), Silty Clay, Medium Soft, Moist
	7.5			4.8		
	8					
	8.5					
	9					8-9.5' Brown (7.5YR 4/3), Silty Clay, 10% fine sandstone, Medium soft , Moist
	9.5					
	10					9.5-11' Brown (7.5YR 4/3), Silty Clay, Stiff, Moist
	10.5			1.0		
	11					**11' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-05

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/10/2021**	Date Completed: **2/10/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°23'50.10" W 79°41'39.23"**
Completion Depth: **11.5**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5					0-1.5'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					
	2					1.5-3' Black (7.5 YR 2.5/1), Silty CLAY with 10% medium assorted gravel, Medium soft, Moist
	2.5		SSS-05	**4.75**		Sample SSS-05
	3					
	3.5					
	4					
	4.5					
	5					3-6.5' Dark gray (7.5 YR 4/1), Silty CLAY, 15% medium sandtone, Medium soft, Moist
	5.5					
	6					Sample SSB-05
	6.5		SSB-05			
	7					
	7.5					6.5-8.5' Dark gray (7.5YR 4/1), Silty Clay, Medium Soft, Moist
	8			**5.0**		
	8.5					
	9					
	9.5					8.5-11.5' Dark gray (7.5YR 4/1), Silty Clay, 10% fine sandstone, Medium soft , Moist
	10					
	10.5			**1.25**		
	11					
	11.5					**11.5' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

AECOM

LOG OF SOIL BORING SSS/SSB-06

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/11/2021**	Date Completed: **2/11/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°24'9.27" W 79°40'46.08"**
Completion Depth: **11'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5					0-1'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					1-2' Very dark brown (10 YR 2/2), Silty CLAY, 10% fine assorted gravel, Medium soft, Moist
	2		SSS-06			Sample SSS-06
	2.5			5.0		
	3					3-5' Black (7.5 YR 2.5/1) mottled with brown, Silty CLAY, Medium soft, Moist
	3.5					
	4					
	4.5					
	5					
	5.5					4-5.5' Brown (7.5YR 5/4), Silty CLAY, Medium soft, Moist
	6		SSB-06			Sample SSB-06
	6.5					
	7			4.5		6.5-8.5' Dark Brown (7.5YR 3/3), Silty Clay, Medium Soft, Moist
	7.5					
	8					
	8.5					
	9					8.5-9.5' Brown (7.5 YR 3/4) mottled with black, Silty CLAY, Stiff, Moist
	9.5					
	10					9.5-11' Very dark brown (7.5 YR 2.5/2) , Silty CLAY, Soft, Moist
	10.5			1.0		
	11					**11' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-07

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/11/2021**	Date Completed: **2/11/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°24'32.98" W 79°41'4.65"**
Completion Depth: **10'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5		SSS-07			0-1.5' Black (10 YR 2/1), Silty CLAY, Medium soft, Moist
	1					Sample SSS-07
	1.5					
	2			3.75		
	2.5					
	3					1.5-3.5' Grayish brown (10 YR 3/2) mottled with brown, Silty CLAY, Stiff, Moist
	3.5					
	4					
	4.5					3.5-5' Brown (7.5YR 5/4), Silty CLAY, Stiff, Moist
	5		SSB-07			
	5.5					Sample SSB-07
	6					5-6' Dark Brown (7.5 YR 3/4), Silty CLAY, 5% fine sandstone, Medium soft, Moist
	6.5					
	7					
	7.5					
	8			4.5		
	8.5					6-9' Brown (7.5 YR 3/4) mottled with black, Silty CLAY, Stiff, Moist
	9					
	9.5					9-10' Very dark brown (10 YR 2/2) , Silty CLAY, Stiff, Moist
	10					**10' End of Boring. No Groundwater encountered.**

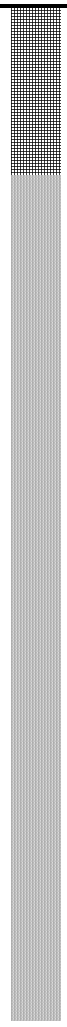
CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: No ballast was encountered at this location. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

AECOM

LOG OF SOIL BORING SSS/SSB-08

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/11/2021**	Date Completed: **2/11/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°25'1.53" W 79°41'10.79"**
Completion Depth: **12'**			Well Registration No. **N/A**		



DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
0					
0.5					0-2'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
1					
1.5					
2					
2.5					2-5' Dark brown (7.5 YR 3/4), Silty CLAY, Medium soft, Moist
3		SSS-08	**4.5**		
3.5					Sample SSS-08
4					
4.5					
5					
5.5					5-6' Grayish brown (10 YR 5/2), Silty CLAY, Medium soft, Moist
6					
6.5					6-7' Brown (7.5YR 5/4), Silty CLAY, Stiff, Moist
7		SSB-08	**5.0**		
7.5					Sample SSB-08
8					
8.5					7-9' Dark Brown (7.5 YR 3/4), Silty CLAY, Medium soft, Moist
9					
9.5					
10					
10.5					9-12' Brown (7.5 YR 3/4), Silty CLAY, Stiff, Moist
11			**1.75**		
11.5					
12					**12' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

AECOM

LOG OF SOIL BORING SSS/SSB-09

Client: **Friends Of Cheat**	Job Number: 60589127		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/9/2021**	Date Completed: **2/9/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°25'29.01" W 79°41'8.09"**
Completion Depth: **11.5'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5					0-1.5'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					
	2					1.5-2.5' Dark brown (7.5 YR 3/4), Silty CLAY with 5% fine assorted gravel, Medium soft, Moist
	2.5		SSS-09	4.25		
	3					Sample SSS-09
	3.5					
	4					2.5-5.5' Dark brown (10 YR 3/4), Silty CLAY, 10 % fine sandstone, Stiff, Moist
	4.5					
	5					
	5.5					
	6					5.5-6.5' Grayish brown (10 YR 5/2), Silty CLAY, Medium soft, Moist
	6.5		SSB-09			
	7					Sample SSB-09
	7.5			4.75		6.5-8' Brown (10 YR 4/3), Silty CLAY, Medium soft, Moist
	8					
	8.5					
	9					
	9.5					
	10					
	10.5					8-11.5' Brown (10 YR 4/4), Silty CLAY, soft, Moist
	11			1.5		
	11.5					**10' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-10

Client: **Friends Of Cheat**	Job Number: 60589127		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	**Address:**		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/9/2021**	Date Completed: **2/9/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°26'1.88" W 79°41'4.11"**
Completion Depth: **12'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5					0-2'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					
	2			**4.5**		
	2.5					2-3' Very dark brown (10 YR 2/2), Silty CLAY with 10% fine assorted gravel, Medium soft, Moist
	3		SSS-10			
	3.5					Sample SSS-10
	4					
	4.5					3-5' Very dark brown (10 YR 2/2), Silty CLAY,15% medium sandstone, Medium soft, Moist
	5					
	5.5					5-6' Very Dark Brown (10YR 2/2), Silty CLAY, Soft, Moist
	6					
	6.5					6-7' Very dark brown (10 YR 2/2), Silty CLAY,10% fine sandstone, Medium soft, Moist
	7		SSB-10			
	7.5			**4.25**		Sample SSB-10
	8					
	8.5					
	9					
	9.5					
	10					
	10.5					
	11			**1.75**		7-12' Brown (7.5YR 4/4), Silty CLAY, Stiff, Moist
	11.5					
	12					**12' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-11

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/8/2021**	Date Completed: **2/8/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°26'31.63" W 79°40'56.96"**
Completion Depth: **12'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5					0-2'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					
	2					
	2.5			**4.8**		2-4' Black (7.5 YR 2.5/1), Silty CLAY, Soft, Moist
	3		SSS-11			
	3.5					Sample SSS-11
	4					
	4.5					
	5					
	5.5					4-6' Black (7.5 YR 2.5/1) mottled with brown, Silty CLAY, Medium soft, Moist
	6					
	6.5					
	7		SSB-11			
	7.5			**4.5**		Sample SSB-11
	8					
	8.5					6-9' Grayish brown (10YR 5/2), Silty CLAY, Medium soft, Moist
	9					
	9.5					
	10					9-11' Brown (7.5 YR 4/3), Silty CLAY, Stiff, Moist
	10.5					
	11			**2.0**		
	11.5					11-12' Dark Brown (10YR 3/3), Silty Clay, Medium Soft, Moist
	12					**12" End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-12

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/8/2021**	Date Completed: **2/8/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°27'0.11" W 79°40'33.29"**
Completion Depth: **11'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
	0					
	0.5					0-1'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					1-2' Very dark brown (10 YR 2/2), Silty CLAY, Medium soft, Moist
	2		SSS-12			
	2.5			**5.0**		Sample SSS-12
	3					
	3.5					2-4' Black (10YR 2/1), Silty CLAY, 20% fine sand, Medium soft, Moist
	4					
	4.5					
	5					4-5.5' Grayish brown (10YR 5/2), Silty CLAY, Medium soft, Moist
	5.5					
	6		SSB-12			
	6.5					Sample SSB-12
	7					
	7.5			**4.75**		5.5-8' Brown (7.5 YR 4/3) mottled with gray, Silty CLAY, Stiff, Moist
	8					
	8.5					
	9					
	9.5					
	10					8-11' Grayish brown (10YR 5/2) mottled with gray, Silty CLAY, Stiff, Moist
	10.5			**1.8**		
	11					**11" End of Boring. No Groundwater encountered.**

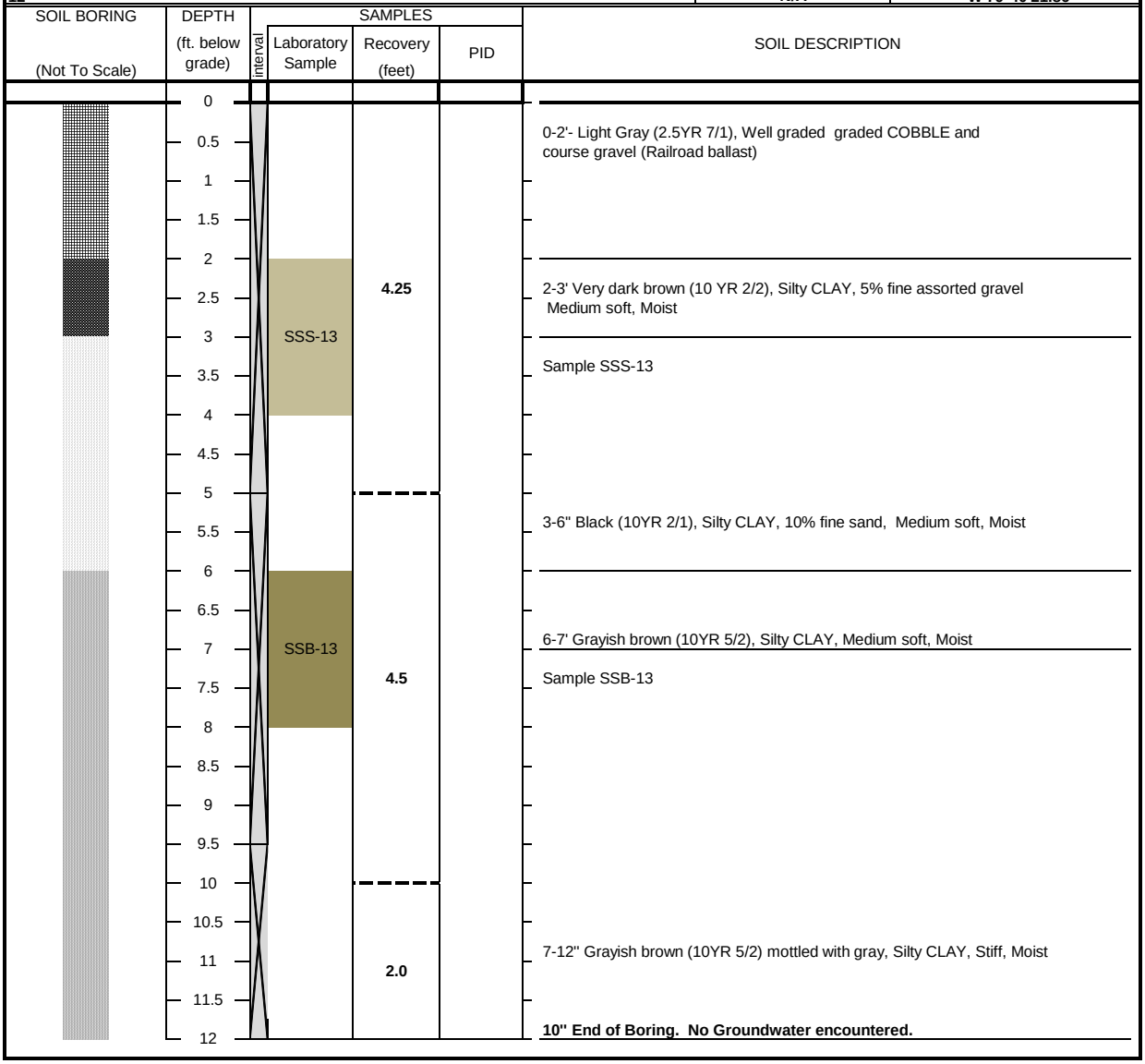
CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

AECOM

LOG OF SOIL BORING SSS/SSB-13

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/8/2021**	Date Completed: **2/8/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°27'11.68" W 79°40'21.86"**
Completion Depth: **12'**			Well Registration No. **N/A**		



CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

LOG OF SOIL BORING SSS/SSB-14

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/8/2021**	Date Completed: **2/8/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°27'20.65" W 79°40'13.18"**
Completion Depth: **8.5'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
						Coal Fines
	0					0-2'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	0.5					
	1					
	1.5					
	2					
	2.5		SSS-14	4.25		2-4' Very dark brown (10 YR 2/2), Silty CLAY, 5% assorted gravel, Medium soft, Moist
	3					Sample SSS-14
	3.5					
	4					
	4.5					
	5					4-7' Brown (10YR 4/3), Silty CLAY, Medium soft, Moist
	5.5					
	6					
	6.5					
	7		SSB-14	3.5		Sample SSB-14
	7.5					7-8.5' Brown (10YR 4/3) mottled with gray, Silty CLAY, Stiff, Moist
	8					
	8.5					**8.5' End of Boring. Refusal at 8.5'. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

AECOM

LOG OF SOIL BORING SSS/SSB-15

Client: **Friends Of Cheat**	Job Number: **60589127**		Depth to Water (DW) (ft. from measuring pt.)		Site Elevation Datum
Site Name: **Friends Of Cheat Rail Trail**	Address:		Date **N/A**	DW **N/A**	Ground Surface Elevation **N/A**
Drilling Company: **Enviroprobe**	Method: **Direct Push**	Rig **Geoprobe 6620 DT**			GPS Type: **GNSS RTK**
Date Started: **2/8/2021**	Date Completed: **2/8/2021**	Technician: **Kevin Booton/Jason Newman**			Location Coordinates **N 39°27'30.12" W 79°39'53.81"**
Completion Depth: **11.5'**			Well Registration No. **N/A**		

SOIL BORING (Not To Scale)	DEPTH (ft. below grade)	SAMPLES interval	Laboratory Sample	Recovery (feet)	PID	SOIL DESCRIPTION
						Coal Fines
	0					
	0.5					0-1.5'- Light Gray (2.5YR 7/1), Well graded graded COBBLE and course gravel (Railroad ballast)
	1					
	1.5					
	2		SSS-15	**4.25**		1.5-2.5' Dark brown (7.5 YR 3/2), Silty CLAY, 10% assorted gravel, Medium soft, Moist
	2.5					
	3					Sample SSS-15
	3.5					
	4					
	4.5					2.5-6.5' Grayish brown (10YR 5/2), Silty CLAY, Medium soft, Moist
	5					
	5.5					
	6		SSB-15			
	6.5					
	7					Sample SSB-15
	7.5			**5.0**		
	8					
	8.5					
	9					
	9.5					
	10					6.5-11.5' Brown (10YR 4/3), mottled with gray, Silty CLAY, Medium soft, Moist
	10.5					
	11			**1.5**		
	11.5					**11.5' End of Boring. No Groundwater encountered.**

CLAY
Silty CLAY to Clayey SILT
SILT
Sandy SILT to Silty SAND
SAND
Silty Clay with Gravel
Gravel/Ballas
Ground Water

Notes/Observations: Ballast was not sampled. Surface soil horizon was considered to be the first layer of soil capable of supporting vegitation. Samples collected using a Geoprobe DT325 dual sampling tube system with a PVC sample liner.

Appendix F
Derivation of Dilution Attenuation Factor

Derivation of Site-specific Dilution-Attenuation Factor

The site-specific Dilution-Attenuation Factor (DAF) for the Cheat River Rail-Trail Corridor was derived using a spreadsheet calculator created and used by NJDEP and recommended for use this Site by the WVDEP Project Manager. Input parameters entered into the spreadsheet are described below. Information to justify several of the parameters was very limited so conservative assumptions were employed. Consequently, the resulting DAF is considered highly protective and groundwater and would likely be higher if additional data were available.

Input parameters:

L (length of area of concern parallel to groundwater flow) = 30 ft

Groundwater in the area is assumed to flow downgradient toward the Cheat River. The rail corridor runs along the river so the length of the area of concern was assumed to be the width of the rail corridor which is 30 feet. This conservatively assumes that the entire width of the rail corridor is contaminated which is highly unlikely.

d_a (aquifer thickness) = 11.5 ft

The aquifer thickness is unknown so the default value in the NJDEP spreadsheet was used.

I (infiltration rate) = 11 in/yr

The infiltration rate is unknown so the default value in the NJDEP spreadsheet was used.

K (hydraulic conductivity) = 31,010 ft/yr

Groundwater in the area occurs within the alluvial material associated with the main Cheat River Valley and is expected to contain course-grained alluvium with cobbles and boulders. The hydraulic conductivity of this material was assumed to be the average value (3×10^{-3} m/sec) of the range of hydraulic conductivities for gravel provided by Domenico and Schwartz, 1990.

I (gradient) = 0.005

The groundwater gradient is unknown. The rail corridor occurs at a significant elevation above the river to avoid flood waters. Groundwater gradient generally follows topography so the gradient would be expected to be significant. A DAF value of 20 is commonly used as a default value. In order to achieve the default DAF of 20, a groundwater gradient of 0.005 would be needed. This equates to a 0.5 foot change in groundwater elevation over a distance of 100 feet. Given the topography of the Site area, it is likely that the groundwater gradient would be significantly greater than this (as would the DAF).

Because of the number of uncertainties in the various unput parameters, it was determined that the default DAF value of 20 would be justified in lieu of calculating a higher value. The conservative nature of the length of the area of concern and the groundwater gradient, the DAF of 20 is considered to be highly conservative.

NJDEP Impact to Ground Water Dilution-Attenuation Factor Calculator - V2.1, November 2013

Site Name:		Date:	
Additional Description:		Evaluated by:	

$$DAF = 1 + \frac{Kid}{IL}$$

$$d = (0.112L^2)^{0.5} + d_a\{1 - \exp[(-LI)/(Kid_a)]\}, d \le d_a$$

Parameter	Definition	Value	units	Converted to metric: Value	units
L	Length of Area of Concern Parallel to Ground Water Flow	30	ft	9.1	m
d_a	Aquifer Thickness	11.5	ft	3.5	m
I	Infiltration Rate	11	in/yr	0.28	m/yr
K	Aquifer Hydraulic Conductivity	31,010	ft/yr	9452	m/yr
i	Gradient	0.005	dimensionless	0.005	dimensionless
d	Mixing Zone Depth			1.0	m
DAF	Dilution-Attenuation Factor			20	dimensionless

L =width of rail corridor perpendicular to GW flow direction; Aquifer thickness = default value; K = mid-range of values for gravel (course grianed alluvium with cobbles and boulders; i = conservative assumption of gradient

I